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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report describes SELECT, a system designed to streamline the process of determining proper ratings and assigning pay grades to potential Navy lateral entry accessions. It uses a cross-reference index that converts civilian occupations to Navy ratings and was developed in both a manual and computerized version. Qualification is based on training and/or work experience, physical and security characteristics, and separately developed skill tests.		

NPRDC TR 83-33

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**STRATEGY FOR ENLISTING LATERAL ENTRANTS VIA
COMPUTER TECHNOLOGY (SELECT): AN AUTOMATED
SYSTEM FOR DETERMINING RATING AND PAY GRADE
QUALIFICATION FOR POTENTIAL NAVY LATERAL
ENTRY ACCESSIONS**

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AND
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San Diego, California 92152**



**STRATEGY FOR ENLISTING LATERAL ENTRANTS VIA COMPUTER
TECHNOLOGY (SELECT): AN AUTOMATED SYSTEM FOR
DETERMINING RATING AND PAY GRADE QUALIFICATION
FOR POTENTIAL NAVY LATERAL ENTRY ACCESSIONS**

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FOREWORD

This research and development was conducted under advanced development task area RF63-522-801 (Computer-aided and Classroom Training), work unit RF63-522-801-002-03.42 (Civilian Sector Training for Lateral Entry), and was sponsored by the Chief of Naval Operations (OP-01). The objective of the work unit is to examine, test, and evaluate concepts and procedures related to Navy lateral entry targeting skilled nonprior and prior service civilian personnel as petty officers. The current report describes an interactive computerized set of procedures designed to streamline the process of determining ratings and assigning pay grades to potential Navy lateral accessions.

J. W. RENARD
Commanding Officer

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Technical Director

SUMMARY

Problem

Navy recruiters have no objective criteria for assessing skills of potential Navy lateral entry accessions or clear guidelines for making accurate tentative rate assignments for them. The uncertainty and delay in awaiting the assigned rate from the Naval Military Personnel Command (NMPC), along with the time and difficulty associated with gathering the necessary documentation to support lateral accession, are strong disincentives for both the applicant and recruiting personnel.

Purpose

The purpose of this report is to describe the strategy for enlisting lateral entrants via computer technology (SELECT), an interactive set of procedures designed to streamline the procedures for assigning rates to potential Navy lateral accessions.

System Description

SELECT includes a cross-reference index that converts civilian occupations to Navy ratings and was developed in both a manual and computerized version. Skill tests developed under the lateral entry accession program (LEAP) and hours of training and/or work experience formed the basis for system selection criteria.

Recommendation

A need exists to evaluate SELECT in a context that requires users of varying sophistication to determine appropriate Navy ratings for applicants from a wide variety of civilian occupations.

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INTRODUCTION

Problem

The Navy is currently faced with an insufficient number of mid- to upper-level enlisted personnel. This problem is expected to continue for several years, in spite of the fact that retention of both entry-level and career personnel increased in FY 1982. One possible way to augment the Navy's current force of petty officers is through a program of lateral entry. This concept refers to bringing people into the Navy at higher than the normal entry level; that is, personnel may enter the Navy as petty officers if they qualify based on skills and knowledge acquired through training and civilian work experience.

Background

Although the Navy's lateral entry program, known as the direct procurement enlistment program (DPEP), has been in existence for several years, it has not been responsive to the increasing need for skilled petty officers. In fact, enlistment under DPEP has been declining over the last several years to less than a dozen accessions in FY 1980. This may be due, in part, to the fact that enlistment under DPEP is a very cumbersome and time-consuming process. Currently, it takes from 4 to 8 weeks to determine the pay grade and rating at which an applicant should be enlisted. For each applicant, a recruiter must spend time and effort to compile a lengthy preenlistment kit, which includes such information as employment and personal history. Also, the applicant must undergo physical and mental examination at a local military entrance processing station (MEPS) affiliated with a regional Navy Recruiting District (NRD) office. MEPS classifiers interview each applicant to determine program qualification and recommend the entering rate. The recommendation becomes part of the preenlistment kit that is forwarded to the Commander, Navy Recruiting Command (CNRC) and the Naval Military Personnel Command (NMPC), who make the final decision on rate assignment.

The two major problems with the current operation of DPEP are that (1) there are no objective criteria for assessing skills or clear guidelines for making accurate tentative rate assignments at the NRDs, and (2) there is no systematic set of procedures for collecting the necessary data or for determining when such data should be gathered. The uncertainty and delay in awaiting the assigned rate from NMPC, along with the time and difficulty associated with gathering the necessary documentation to support lateral accession, are strong disincentives for both DPEP applicants and recruiting personnel.

The lateral entry accession program (LEAP) was originated at the Navy Personnel Research and Development Center in response to a need to evaluate the lateral entry concept as a viable means for increasing the supply of petty officers and DPEP as an effective lateral entry program. The first LEAP pilot study was conducted from August to December 1982 in Navy Recruiting Area FOUR, which encompasses the areas of Southern Michigan and Northern Ohio. This region was chosen because, when LEAP originated, it had a high unemployment rate, thus offering the greatest available supply of skilled personnel. Test stations in the target area were the four MEPSs affiliated with the NRD offices in Detroit, Michigan; Cleveland, Ohio; and Columbus, Ohio, and 30 area community colleges. One Navy classifier at each MEPS was assigned responsibility for screening and testing applicants from the area work force; and educational specialists from the NRDs, for helping college counselors screen and test applicants with college backgrounds.

In an attempt to modify the lateral entry recruiting process so that procedures were more objective and less time-consuming, objective skill tests were developed for the following 13 ratings, which were experiencing severe petty officer (E-4, E-5, and E-6) shortfalls at the time LEAP was originated.

- AE--Aviation electrician's mate.
- AT--Aviation electronics technician.
- EM--Electrician's mate.
- EN--Engineman.
- ET--Electronics technician.
- FTG--Fire control technician (gun fire control).
- HT--Hull maintenance technician.
- IC--Interior communications technician.
- MM--Machinist's mate.
- MR--Machinery repairman.
- MS--Mess management specialist.
- SK--Storekeeper.
- YN--Yeoman.

Also, an interactive set of computerized procedures entitled "strategy for enlisting lateral entrants via computer technology" (SELECT) was developed for use in conjunction with the tests.

Purpose

The objective of this report is to document the SELECT system, including system requirements and operational procedures.

SYSTEM DESCRIPTION

SELECT is an interactive computerized set of classification procedures for initial processing of lateral entry applicants. It was designed to (1) streamline the process by which Navy classifiers at MEPS currently determine whether applicants are qualified for DPEP and (2) automate the process so that naive users such as college counselors could screen potential DPEP entrants. As part of this effort, a cross-reference system that converts civilian occupations to Navy ratings was developed. While a manual version of SELECT was also created, the major focus was on the operation and content of the computerized version.

SELECT is a set of 10 functions (programs), comprising approximately 150 lines of programming in APL, an interactive programming language. The programs reside on an IBM 370/3081 computer, a large mainframe operated by Boeing Computer Services (BCS). This system was chosen because it is used by Navy classifiers, who make up one group of intended SELECT users, and compatible terminals are available at each MEPS. However, SELECT can be adapted to smaller mainframes (e.g., IBM 4341) and microcomputers (e.g., IBM 5110), both of which were used in developing SELECT. On any system, SELECT operates within an APL workspace that contains all the necessary functions and variables to build and update the SELECT data base, which is stored permanently on a disk external to the APL workspace. When a user signs on to the BCS computer under a special account, the data base and APL workspace are made available and SELECT is automatically invoked. Appendix A provides a brief description of the SELECT system

programs; Appendix B, a description of the global variables used; and Appendix C, the actual program documentation.

Figure 1, a flowchart of the SELECT process, shows how SELECT flows from evaluation of general to specific lateral entry requirements. This simplifies the selection process by enabling the user to determine early on in the process if an applicant meets the general requirements for a rating and/or pay grade. If he or she is judged as unqualified, no further action is required.

Initially, the SELECT system requires input of demographic variables for use in tracing applicants and in subsequent analyses. SELECT computes the applicant's maximum qualified pay grade by comparing work/training experience data entered with lateral entry pay grade requirements listed in the Navy Recruiting Manual--Enlisted (1982). The SELECT output contains the level of pay grade qualification and the associated basic monthly pay to enable the applicant to weigh the financial aspects of enlisting. SELECT also prints out the factors that limit the applicant to the pay grade indicated.

The next step in the sequence is determining the appropriate Navy rating for the applicant. This required, among other things, the development of a civilian occupation-Navy rating cross-reference system to allow users (Navy classifiers, college counselors, and other potential users (e.g., job placement officials)) to identify the Navy ratings corresponding to the applicant's civilian training and/or work experience. The Department of Labor's Dictionary of Occupational Titles (DOT) was used as the framework to define civilian occupations. In DOT, civilian occupations are represented by nine-digit codes, with the first three being used to classify occupations by category, division, and group respectively. This level of detail was used in SELECT since it is the closest to the detail level used in describing Navy ratings.

The system was developed from existing Navy and Department of Defense publications that list Navy ratings and corresponding DOT classifications (e.g., the Military-Civilian Job Comparability Manual and the Navy Enlisted Career Guide). Also, the manual of Navy Enlisted Manpower and Personnel Classification and Occupational Standards, Section I (Navy Enlisted Occupational Standards) (NAVPERS 18068) was used to obtain titles of related civilian occupations for each rating. The civilian occupations were converted into DOT codes when not already provided. Finally, all available sources were integrated into a computer cross-referenced data base of all DOT codes and Navy ratings. Any gaps in the data base due to the limited listings in the available sources were filled in by judging which ratings corresponded to each DOT code.

To help the applicant decide which rating to select, a brief description of each rating was written based on descriptions provided in the Navy Enlisted Occupational Standards and in the Navy Enlisted Career Guide. These descriptions included, for each rating, a listing of the semester hours of credit that could be received by Navy personnel at each pay grade within a rating. This educational correspondence data, which is particularly useful to college students and recent graduates, were based on assessments of each rating found in The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services, a publication of the American Council on Education.

After general pay grade qualifications have been assessed and a rating selected, SELECT determines whether the applicant meets requirements specific to the rating for

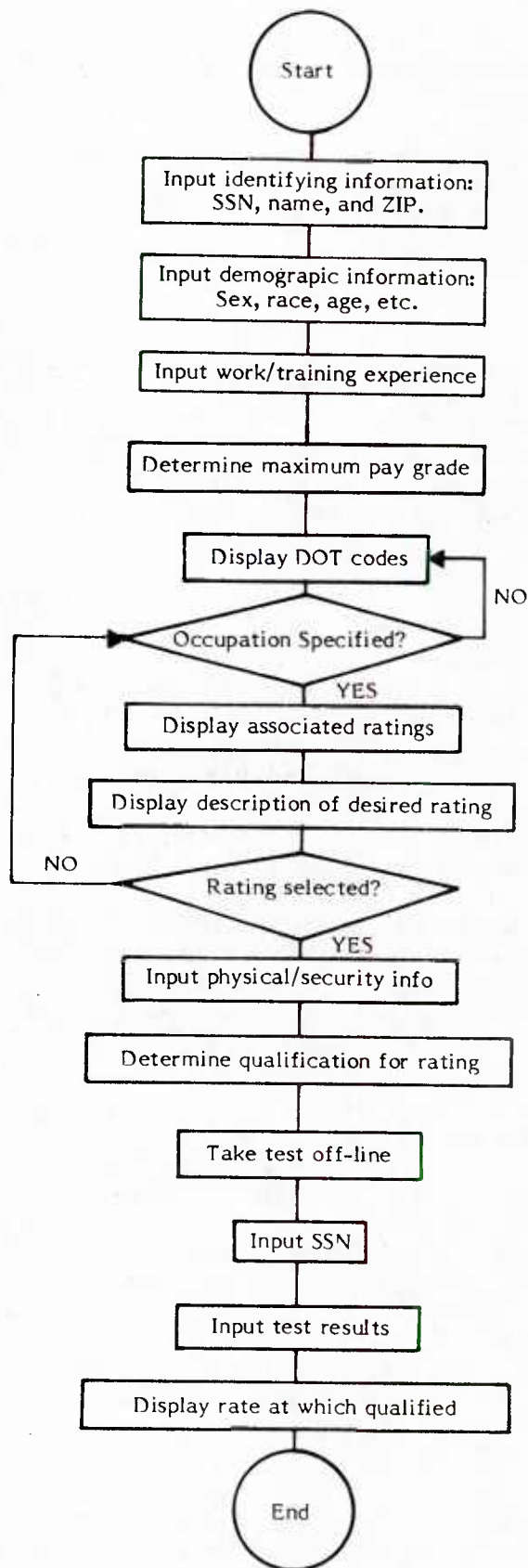


Figure 1. A flowchart of the SELECT process.

physical characteristics, citizenship, and security clearance. These standards are listed in Appendix J of the Navy Enlisted Manpower and Personnel Classifications and Occupational Standards. If an applicant is unqualified for the rating, SELECT displays the deficient areas. Further, SELECT displays the results of any previous tests so that, if the individual has already taken the desired test, retesting can be avoided.

When an applicant has been otherwise determined qualified for a rating, a skill qualification test is administered and results are scored manually. (These assessment instruments will be described in a subsequent report.) Finally, test scores are compared with established criteria and the maximum eligible pay grade within the rating is determined. SELECT then displays the rating and pay grade for which the applicant is qualified, plus the basic monthly pay associated with the pay grade.

As previously mentioned, a manual version of SELECT was developed for use when the computer is inaccessible. This method, which is basically a sequence of steps paralleling the computer method, uses printouts of files stored in the computer. Under this method, the user (e.g., college counselor, Navy classifier, or educational specialist) manually flips through the pages of the printed files to obtain necessary information and then fills out a SELECT data sheet with information that would otherwise be entered and/or calculated, and stored by the computer. Information from the data sheet is later entered into the computer to maintain an updated data base. Instructions on how to use SELECT under both manual and computer conditions are contained in Appendix D.

RECOMMENDATION

A need exists to evaluate SELECT in a context that requires users of varying sophistication to determine appropriate Navy ratings for applicants from a wide variety of civilian occupations.

REFERENCES

American Council on Education. Guide to the evaluation of educational experience in the armed services. Washington, DC: 1982.

Department of Defense. Military/civilian job comparability manual. Washington, DC: Office of the Assistant Secretary of Defense (Manpower and Reserve Affairs), (undated).

Department of Labor. Dictionary of occupational titles (4th Ed.). Washington, DC: Superintendent of Documents, U.S. Government Printing Office, 1977.

Naval Military Personnel Command. Manual of Navy enlisted manpower and personnel classifications and occupational standards (NAVPERS 18068), 1982.

Navy Recruiting Command. Navy recruiting manual--enlisted (COMNAVCRUITCOM INST. 1130.8). Arlington, VA: 1982.

Navy Recruiting Command. Navy enlisted career guide. Arlington, VA: 1981.

APPENDIX A
BRIEF DESCRIPTION OF APL FUNCTIONS

BRIEF DESCRIPTION OF APL FUNCTIONS

1. SELECT Main function that controls determination of an applicant's rate. Solicits social security number and verifies its validity. It determines if the SSN is old by examining data base through SHARE function. Solicits name of applicant and zip code of testing site. The function then calls functions 2-6 listed below. Each function returns a variable that contains the solicited information, which is then stored by SELECT. Before ATEST is invoked, an opportunity is given to review and/or correct any data previously entered. This offer is accessible from any point in any function by entering a special character. It is automatically accessed when SSN is old. Following update section, ATEST is called, after which SHARE is called to permanently update the data base. The function can then be restarted or else the terminal session is terminated.
2. DEMOG Solicits demographic information that is not used in rate determination but is useful for identification and research purposes. Input is not checked for conformity to format of parameters since this could cause unnecessary delays in processing the applicant. Because these data will be used only for identification, strict format conformity is not required. Excess spaces are removed from input, however, to conform to available space in data base.
3. APAYGRADE Solicits information on months of general and supervisory work experience and hours of vocational training. This information is then compared with the variable STANDARD to determine at which pay grade the applicant is qualified. The function then prints the level of qualification, the associated basic pay, and the parameters that limited pay grade to reported level.
4. AXREF Interactively cycles through one, two, and three-digit codes of the Dictionary of Occupational Titles (DOT), stored in the variable MENU. Once a three-digit code is specified, its location is found in the variable INDC, which is an index for ratings found in the variable RATC. The portion of RATC containing the ratings associated with the DOT code (indicated by INDC) is then printed. Next, the user has the option of returning to a display of DOT codes or of viewing a description of a rating contained in the variable ADESCR.
5. ABACK Solicits information pertinent to requirements for special physical characteristics, such as hearing and vision, and for citizenship and security clearance. The function first solicits the rating and then the information. If qualification for a different rating is requested, stored background information can be used. Following specification of information or use of stored data, qualification for the entered rating is given. If the applicant is unqualified, the areas causing disqualification are listed.
6. ATEST Prints out results of any previous test, then solicits rating and scores of test. Compares scores with those stored in variable CRITERIA. Prints out rate at which test-qualified and pay grade for which

qualified from APAYGRADE. Also prints associated basic monthly pay.

- 7. SHARE Depending on argument, this function establishes read-only or read/write access to data base in file DIRECT AP210. The function searches for SSN entered in SELECT function and reads data from appropriate record or writes data to appropriate record. If no match found, first record after existing data is used. If write access cannot be established, a temporary file is created.
- 8. COND This function eliminates excess blanks from a string.
- 9. ANUMCHK The function checks string for numerical characters and resolicits input if nonnumeric character found.
- 10. FIND This function searches one variable for the location of another. Upper and lower case letters are treated identically.

APPENDIX B
GLOBAL VARIABLES

GLOBAL VARIABLES
(dimensions in parentheses)

AMENU	(110 x 14 x 64) This variable contains 110 displays. Each display is 14 x 64 characters consisting of: <ol style="list-style-type: none">1. 1 display of 1-digit DOT codes.2. 9 displays of 2-digit DOT codes.3. 100 displays of 3-digit DOT codes.
RATC	(1351 x 4) This variable contains 1351 ratings. Each rating is allotted 4 spaces. Groups of ratings correspond to particular DOT codes and are indexed by INDC.
INDC	(411 x 3) This variable contains 411 indexes that are used to index the appropriate group of ratings in RATC. Each index corresponds to a DOT code that has at least one associated Navy rating. Each index has three parts: <ol style="list-style-type: none">1. DOT code.2. Position of first rating listed in RATC minus.3. Number of rating listed in RATC.
ADESCR	(99 x 16 x 64) This variable contains 99 displays. Each display is 16 x 24 characters. They consist of job descriptions and educational backgrounds for 97 ratings. Two ratings require two displays.
RATING	(99 x 4) This variable contains 99 ratings. Each rating is allotted 4 spaces. The ratings correspond to the descriptions in ADESCR and are used to index the appropriate display.
STANDARD	(7 x 4) This variable contains minimum levels of (1) work experience, (2) supervisory work experience, (3) training, and (4) a combination of work experience and training, for qualification at each of seven pay grades (E-1--E-7).
PAY	(8 x 7) This variable contains basic monthly pay (in a 7-character string) for 8 pay grades (E-0--E-7).
BGINFO	(13 x 7) This variable contains 7 values for each of the 13 LEAP target ratings. The values correspond to special physical, citizenship, and security clearance requirements for each rating.
CRITERIA	(13 x 3) This variable contains the minimum test scores necessary to pass each of 3 pay grades (E-4--E-6) for each of the 13 LEAP target ratings.
RTG	(13 x 4) This variable contains the 13 LEAP target ratings (4 characters per rating). It is used to reference the values in BGINFO and CRITERIA.

APPENDIX C
DOCUMENTATION OF APL FUNCTIONS USED IN SELECT

DOCUMENTATION OF APL FUNCTIONS USED IN SELECT

```

V SELECT;Q;Y;RECORD;SSN;INDEX;NAME;OLD;ZIP;DIRECTOR
[1] 'STRATEGY OF ENLISTING LATERAL ENTRANTS VIA COMPUTER TECHNOLOGY
[2] 'ENTER ;CR: <CARRIAGE RETURN> TO CONTINUE TO NEXT PROGRAM'
[3] 'ENTER / TO REVIEW DATA'
[4] 'ENTER ≠ TO EXIT MAIN PROGRAM',DAVC203J
[5] ST;INDEX+1+OLD+0
[6] RECORD+320+Q+
[7] 'ENTER SSN, ;CR:, ≠, /'
[8] +( ' ≠/'=1+SSN+ANUMCHK [ ])/P,END,U
[9] +(9=ρSSN)/CONT1
[10] 'PLEASE ENTER 9 DIGITS'
[11] +ST
[12] CONT1:SHARE 'R'
[13] RECORD[118 119]+ 2 0 Y1+T1+0',RECORD[118 119]
[14] +(OLD+ '≠RECORD[13])/U
[15] RECORD[120+15J+5+T+TSC2 3J
[16] RECORD[19J+SSN
[17] N:'PLEASE ENTER NAME OF NEW APPLICANT, ÷ TO REENTER SSN, ;CR:, ≠'
[18] (64×OLD)+RECORD[30J,' IS STORED'
[19] +( ' ≠÷'=1+NAME+20+COND [ ])/Z,END,ST
[20] RECORD[10+120J+NAME
[21] Z:'PLEASE ENTER ZIP CODE OF TESTING SITE, ;CR:, ≠, /'
[22] (64×OLD)+RECORD[31+15J,' IS STORED'
[23] +( ' ≠/'=1+ZIP+COND [ ])/D,END,U
[24] RECORD[31+15J+5+ZIP
[25] D:+( ' ≠/'=1+Y+DEMOG)/P,END,U
[26] RECORD[37+133J+33+Y
[27] P:+( ' ≠/'=1+Y+APAYGRADE)/X,END,U
[28] RECORD[70+120J+20+Y
[29] X:+( ' ≠/'=1+Y+AXREF)/B,END,U
[30] RECORD[90+15J+5+Y
[31] B:+( ' ≠/'=1+Y+ABACK)/U,END,U
[32] RECORD[95+120J+20+Y
[33] U:'ENTER <N,Z,D,P,X,B> FOR NAME, ZIP, DEMOG, PG, XREF, BACKGC ;CR: FOR TEST SCORES, ≠, /'
[34] OLD+1
[35] +( 'NZDPXB ≠/'=1+COND [ ])/N,Z,D,P,X,B,T,END,U
[36] →U
[37] T:+( ' ≠/'=1+ATEST)/U
[38] END:'END OF PROGRAM'
[39] SHARE 'U'
[40] 'PLEASE ENTER 1÷ TO RESART PROGRAM, OTHERWISE SYSTEM LOGS OFF'
[41] +( ' ÷, '=1+[ ])/1,0
[42] OCTS 'LOGOFF'
V

```

```

V DEM+DEMOG
[1] 'PLEASE ENTER THE FOLLOWING DEMOGRAPHIC INFORMATION V;CR:, #, /\'
[2] 'SEX + RACE + ETHN + CIV ED + DOB + BRANCH + YR/MO/DA OF SERVICE'
[3] '(64*OLD)+RECORD(37+133),' IS STORED'
[4] +(' #'/'=1+DEM+35+COND Q)/0
V

```

```

[1]  V DATA=APAYGRADE:AREAS:C:MIN:X:Y
[2]  'ENTER THE FOLLOWING TO DETERMINE MAXIMUM PAYGRADE, ;CR1; #, /'
[3]  HEAD:AREAS+ 3 16 P0+ # WORK EXP+MOSA # SUP W/E +MOSA # TRAINING +HRS+
[4]  (64+OLD)+RECORD(70+120), ' IS STORED'
[5]  +(' #/'=1+DATA+ANUMCHK 0)/0
[6]  +(0#P0+((3#P,X+1DATA)*64)+ 'PLEASE ENTER ONE NUMBER FOR EACH AREA LISTED.)/HEAD
[7]  C+, (14)*.=14
[8]  C+/, (8 7 4 P4P X+(X[C3]+1000*X[C13]+12),X[C1 2])+.2STANDARD
[9]  'APPLICANT IS QUALIFIED FOR ',(Y+C3'E',+MIN)',, WITH BASE MONTHLY PAY OF $',PAY[C1+MIN]+L/C;]
[10] 'MINIMUM AREAS( ',C1[C=C:MIN)/C1[C1 16 P' # WORK+TRAINING '),C13 3 16 +AREAS 3 1 2 ;10]
[11] DATA=Y,DATA
[12] V

```

```

V DOT+AXREF;I;LOC;POS;RAT
[01] ENT:'ENTER DOT NUMBER V0 TO BEGIN., ;CR:, ≠, /'
[02] (64×OLD)÷RECORG(90+53,' IS STORED'
[03] +(' ≠/'=1÷DOT÷3÷ANUMCHK 0)/0
[04] I÷(1DOT,'+1')+10×2÷+' '≠DOT
[05] ÷(3÷÷DOT≠' ')/LST
[06] AMENUCI;;]
[07] →ENT
[08] LST:LOC÷,INDC(POS-(1+1÷INDC)=POS+INDC;1);I-1; 2 33
[09] ,RATC(LOC(1)+LOC(2));]
[10] ÷(POS=1+1÷INDC)/ENT
[11] DES:'ENTER RATING DESCRIPTION DESIRED, 1 FOR NEW DOT NUMBER, ;CR:, ≠, /'
[12] +(' ≠/1'=1÷RAT÷0)/0,EN,ENT
[13] ÷(0≠0,0÷ADESCR(1÷RAT;))/DES
[14] RAT,' RATING DOES NOT EXIST'
[15] →RES
[16] EN:DOT+RAT
      V

```


SELECT

<u>Line #</u>	<u>Description</u>
1-4	Instructions for special characters, which are acted upon when entered at any request for input during function execution.
5-6	Initialize index, old record.
7	Print SSN instructions.
8	Verify input to SSN as numeric and move to appropriate section if special character is entered.
9-11	Print error message and return to start if SSN does not contain exactly 9 digits with no spaces.
12	Invoke SHARE function to determine if SSN already exists in data base.
13	Increment counter of number of times record accessed.
14	If record has existing information, indicate in OLD and go to update area.
15	Store current date if SSN new.
16	Store SSN if new.
17	Print instruction for input of name.
18	If old SSN, print out stored data.
19	Assign condensed input of name to NAME and move to appropriate section if special character entered.
20	Store name.
21	Print instructions for input of zip code.
22	If old SSN, print out stored data.
23	Assign condensed input of zip code to ZIP and move to appropriate section if special character entered.
24	Store ZIP code of testing site.
25	Invoke DEMOG function, store result in Y, and move to appropriate section if special character is the result.
26	Store demographic information.
27-28	Same as 25-26 applied to APAYGRADE function.
29-30	Same as 25-26 applied to AXREF function.

<u>Line #</u>	<u>Description</u>
31-32	Same as 25-26 applied to ABACK function.
33	Print update/review instructions.
34	Update OLD to indicate that there are stored data.
35-36	Move to indicated section or resolicit input if unknown character entered.
37	Invoke ATEST function and move back to update line if '/' is the result.
38	Print 'end of program.'
39	Invoke SHARE program to update data base.
40	Print instructions to restart function.
41-42	Restart or log off as indicated by input.

DEMOG

- 1-2 Print out instructions for entering information.
- 3 If old SSN, print out stored data.
- 4
 - a. Solicit input for demographic information.
 - b. Remove excess blanks from input.
 - c. Assign 35 characters of input as result of function.

APAYGRADE

- 1-2 Print out instructions.
- 3 If old SSN, print out stored data.
- 4
 - a. Solicit input for experience and training.
 - b. Verify input is numeric.
 - c. Assign numbers to DATA.
 - d. If special character entered, exit function with special character as result.
- 5
 - a. Assign DATA to X and if three numbers not entered:
 - b. Print out message.
 - c. Return to instructions.
- 6 Initialize C.
- 7
 - a. Compare DATA with STANDARD.
 - b. Assign level of qualification to C.
- 8 Print out level of qualification and associated base pay.
- 9 Print out areas that limited pay grade to indicated level.
- 10 Assign pay grade and DATA to result of function.

Line # Description

AXREF

- 1 Print out instructions.
- 2 If old SSN, print out stored data.
- 3 a. Solicit input to begin search for Dictionary Occupational Titles (DOT) code in variable MENU.
 b. Verify input is numeric.
 c. Assign digits to DOT.
- 4 Convert DOT into page number for AMENU and assign to I.
- 5 If 3-digit DOT specified, go to LST.
- 6 Otherwise, print specified MENU page.
- 7 Continue searching MENU.
- 8 a. Find the position in INDC of the DOT code and assign it to POS.
 b. From the information in INDC, assign to LOC the location RATC of the ratings corresponding to DOT.
- 9 Print out ratings associated with DOT.
- 10 Return to beginning if DOT invalid.
- 11 Print instruction for displaying rating descriptions.
- 12 a. Solicit input for desired rating description.
 b. Go to end of function if special character entered. If (1) is entered, return to beginning.
- 13 a. Find the location of the rating.
 b. Print the description of the located rating.
 c. Return to description instructions if description found.
- 14 If no or improper rating entered, print statement.
- 15 Then return to description instructions.
- 16 Assign RAT to DOT as result of function.

ABACK

- 1 Print instructions.
- 2 Initialize N and IND.

<u>Line #</u>	<u>Description</u>
3	<ul style="list-style-type: none"> a. Assign to RT 4 letters of condensed input. b. Assign the first character of input as result of function. c. Skip to next section in function, or if input is another character, exit function, with character as result.
4	<ul style="list-style-type: none"> a. Find position of RT in RTG and assign to IND. b. Skip to next section if rating found.
5-6	If not, print statement and return to start of function.
7-8	Print instructions.
9	Print out stored value of BACKG.
10	Initialize BACKG.
11	<ul style="list-style-type: none"> a. Solicit input for BACKG. b. Verify input is numeric. c. Assign value to BACKG. d. Skip to next section if function, or if input is another special character, exit function, with character as result.
12	Skip to next section if BACKG has 7 numbers.
13-14	If not, print instruction and return to solicit input.
15	Assign numeric representation to BACKG plus stored data to BS.
16	Skip to next section if no rating was entered.
17	<ul style="list-style-type: none"> a. Compare values of BGINFO for indicated ratings. b. Assign logical comparison vector to BG. c. Test if all values meet standards. d. Assign result of test to N. e. If result is positive, go to qualification statement.
18	If not, print nonqualification statement.
19	Print reasons for not qualifying.
20	Print qualification statement if qualified.
21-22	Print out tests already taken, if any, and the results.

ATEST

- | | |
|-----|---|
| 1-2 | Print out tests already taken, if any, and the results. |
| 3 | Print instructions. |

<u>Line #</u>	<u>Description</u>
4	Assign condensed input of rating to RT and exit function if special character entered.
5	Assign index for rating entered to RT and skip to results section if rating found.
6-7	If not, print error message and return to solicitation.
8	Print instructions.
9	Verify input as numeric, assign results to RES, and exit function if special character entered.
10	Compare results with indicated CRITERIA and store output of rank and pay grade in RAT.
11-12	Print statement of test and background qualification with salary information.
13	Record qualified rate and test results.

SHARE

1	Exit function if SSN invalid.
2	Initialize J.
3-6	Establish connection with data base and move to error section (Line 15) if any problems indicated.
7-10	Establish DIRECTORY as a list of all SSNs in the data base.
11	Locate the position of the SSN in DIRECTORY, assign this value to IND, and move to FINR (Line 14) if it does not exist.
12	If it does exist, establish access to indicated record.
13	If R indicates read access desired, read data into RECORD variable; if write access desired, write data from RECORD to file.
14	Exit function.
15	Exit function unless R indicates write access desired in which case move to PROC (Line 13) to write data.
16-20	Make 2 more attempts to establish connection by delaying 2 seconds, expunging old attempt and moving to TRY (Line 2).
21-24	If contact cannot be established, create temporary file and print instructions to report problem.

<u>Line #</u>	<u>Description</u>
---------------	--------------------

- | | |
|-------|---|
| 25-26 | If temporary file cannot be created move to EER2 (Line 29) and print error. |
| 27-28 | Print success message and move to ST (Line 6) to store data. |
| 29 | Error message for temporary file. |

COND

- | | |
|---|--|
| 1 | Eliminate excess and leading blanks from string X and assign condensed string as result of function. |
|---|--|

ANUMCHK

- | | |
|-----|--|
| 1-2 | Assign condensed form of X to Y and exit function if Y contains special character. |
| 3 | Exit function if each element of Y is numeric or blank. |
| 4-6 | Print numeric instructions, solicit new input, and move to ST to evaluate new input. |

FIND

- | | |
|-----|---|
| 1 | Find the location of string B in matrix A and assign value as result of function. |
| 2-3 | If B cannot be located, convert upper case to lower case and reattempt location. |

APPENDIX D

SELECT GUIDE FOR MANUAL AND COMPUTER PROCEDURES

SELECT

(Strategy for Enlisting Lateral Entrants via Computer Technology)

Guide for Manual and Computer Procedures



Directions for Tentative Assignment to Rate using SELECT

I. General Introduction

The Strategy of Enlisting Lateral Entrants via Computer Technology (SELECT) is an interactive computer program designed to aid classifiers and/or college counselors in tentatively determining the rating and paygrade at which an applicant may enter the Navy under the Lateral Entry Accession Program (LEAP). The determination is based on the applicant's previous work experience, training, and the results of specially designed LEAP tests. Since all testing sites do not have access to computer terminals, a manual method for making rate determinations, closely paralleling the computer method, has been developed. This involves completing a data sheet that will be submitted to the local Navy Recruiting District (NRD) for subsequent entry into the computer. This method also provides an alternative means of rate determination in the event of computer failure.

II. Manual Method

Page 8 is a sample of a completed SELECT Data Sheet. Following the data sheet are four information sections containing information necessary to complete the data sheet. The description of those sections is given below. Their use is described in the instructions for the data sheet beginning on page 2.

Data Sheet Tables

This section contains three tables used to determine qualification for paygrade and rating on the basis of (1) general paygrade requirements, (2) special physical requirements for entry into a rating, and (3) test scores required for acceptance in a given paygrade for a specific rating.

DOT Structure

This section contains all the one-, two-, and three-digit DOT codes.

DOT - Navy Rating Cross-Reference

This section contains the Navy ratings associated with each DOT code. Starred ratings are part of LEAP pilot project and are those which tests are available.

Rating Descriptions

This section contains brief descriptions of all Navy ratings. Also included are brief descriptions of the corresponding educational credit associated with each paygrade within a rating.

INSTRUCTIONS FOR DETERMINING RATING AND PAYGRADE
USING THE MANUAL METHOD

1. SSN - Enter 9 digits
2. Name - Last name; First and Middle initials
3. Zip Code - Enter five digit zip code of testing site
4. Demographic information - Fill out each line as indicated below
 - a. Sex - Enter M or F
 - b. Race - Enter the letter in parentheses below that corresponds to the applicant's race
 - (C) Caucasian
 - (N) Black/Negroid
 - (X) Other
 - (Z) Unknown
 - c. Ethnic - Enter the letter or number in parentheses below that corresponds to the applicant's ethnic background
 - (1) Spanish, N.E.C.
 - (2) American Indian, N.E.C.
 - (3) Asian American, N.E.C.
 - (4) Puerto-Rican
 - (5) Filipino
 - (6) Mexican American/Chicano
 - (7) Eskimo
 - (8) Aleut
 - (9) Cuban American
 - (D) India
 - (E) Malaysian
 - (G) Chinese
 - (J) Japanese
 - (K) Korean
 - (L) Polynesian
 - (Q) Other Pacific
 - (S) Central/South American
 - (V) Vietnamese
 - (W) Micronesian
 - (X) Other
 - d. Civilian Education - Enter the number of years of education plus the letter that corresponds to the type of certificate the applicant has received.
 - (N) None
 - (G) Graduate Equivalency Diploma
 - (P) Post high school degree
 - (D) High School Diploma
 - e. Date of Birth - Day/Month/Year

f. Prior Service

- (1) Branch - If the applicant has prior service, enter the letter in parentheses below that corresponds to the branch of service followed by the letter R, for Reserve duty.

(AF) Air Force
(A) Army
(C) Coast Guard
(M) Marine Corps
(N) Navy

(2) Length of Service - Years/Months/Days

5. Maximum Paygrade -

- a. Months of Work Experience - Enter the number of verifiable months the applicant has worked in a given field.
b. Months of Supervisory Work Experience - Enter the number of verifiable months the applicant has worked as a supervisor in any field.
c. Hours of Specific Vocational Training - Enter the number of verifiable contact hours the applicant has spent in a specific vocational training program. Translate one year as 1000 hours.
d. Work/Training - This variable must be calculated as follows: Translate one year of work as 1000 hours by dividing 12 into (a) and multiplying by 1000. Add the result to (c).

Example: (a) = 60
(c) = 4000

$$\begin{aligned} 60 \div 12 &= 5 \\ 5 \times 1000 &= 5000 \\ 4000 + 5000 &= 9000 \end{aligned}$$

Thus, 9000 is entered on line (d).

Next, compare the data on lines (a) through (d) with the Paygrade Standards in the Data Sheet Tables section following the sample Data Sheet. Each of the lines (a) through (d) corresponds to one column in the Paygrade Standards table. In each category, the applicant qualifies at the level his number meets or exceeds the value in the table. Using the numbers as the sample data sheet, the applicant qualifies for E5 in work experience, E5 in supervisory work experience, E6 in training and E6 in work/training. Overall, the applicant is restricted to the lowest paygrade he qualified for in the categories. In this case, the applicant is qualified for E5 because of his work experience and supervisory work experience. Therefore, E5 is entered on line 5 of the sample. NOTE: If the minimum area is Work Experience for an applicant who is otherwise qualified for E4, Work Experience may be waived. This means an applicant qualifying at the E3 level may be considered to qualify at the E4 level.

6. DOT - Navy Rating Cross-Reference - The purpose of this step is to find the Navy Rating that is appropriate to the applicant's work experience, training, and interests. This is done with the help of the final three information sections as described below.
 - a. The DOT structure section is used to determine the three-digit DOT code corresponding to the applicant's area of work. This is done by first selecting the appropriate occupational category (one-digit numbers), narrowing this by selecting the appropriate occupational division (two-digit numbers), and finally refining this by selecting the appropriate occupational group (three-digit numbers). Enter the selected three-digit number on line 6.
 - b. The DOT - Navy Rating Cross-Reference is used to find the Navy ratings associated with the selected DOT code. Simply look up the three-digit code to find the associated ratings. Remember, tests are only available for the starred ratings.
 - c. The final step in choosing a rating is to read the descriptions in the Rating Descriptions section. This section contains a brief description of the duties performed by each Navy rating. A description of educational correspondence is also included. This is an indication of the number of semester hours of credit by course that an individual in a given Navy rate could receive. The number in parentheses refer to the semester hours for paygrades E4, E5, E6, and E7. Thus, the applicant should be familiar with the subjects listed if he expects to qualify for a given rating and paygrade.
7. After a rating is selected, enter this on line 7. To determine qualification for the rating selected, complete lines (a) through (g) and compare the results with the Rating Qualification table in the Data Sheet Tables section. To fill in the data for lines (a) through (e), enter a '1' for 'yes' or 'normal' and '2' for 'no' or 'defective'. For lines (f) and (g), enter the appropriate values for the applicant's vision. An applicant is qualified only if all of the data entered are less than or equal to values in the table for the selected rating. Next to rating entered on line 7, place a '+' if the applicant is qualified and a '-' if not.
8. Test Results - If applicant is qualified for the given rating and has not yet been tested in this rating, a test may be issued. Consult LEAP Test Administrator's Manual for instructions. Once the scoring has been completed, enter the results on the appropriate lines on the data sheet. Compare the results to those in Data Table 3. Applicant is test-qualified for the given rating at the paygrade for which the recorded scores meet or exceed the tabled values. NOTE: An applicant cannot qualify as an E6 if he has not qualified as an E5, and he cannot qualify as an E5 if he has not qualified as an E4. Indicate in the space provided, the level of qualification.

9. Enter the lower of paygrades determined in Step 5 and Step 8, and indicate to the applicant the corresponding basic pay (see Data Table 1).

Submit completed Data Sheet to your local NRD, c/o Enlisted Programs Officer.

III. INSTRUCTIONS FOR DETERMINING RATING AND PAYGRADE USING THE COMPUTER PROGRAM: "SELECT"

The SELECT program is written in the APL computer language and requires that all input be in lower case characters. Thus, it is important to be sure at all times that you enter lower case characters only. Begin by entering your NPRDC USERID and password. The computer will respond with a few lines of print and then request the SELECT password. Enter in lower case letters <<leap>>. This initiates the SELECT program. If the computer responds -ws locked -, enter <<"load Knprdc1K leap>leap >>. If this fails to initiate the SELECT program, log off and try again. The first few lines contain instructions on how to move through the main SELECT program. At any request for input, you may make one of three special entries.

- <*> - Puts you at the end of the program and stores all the data entered.
- </> - Allows you to re-enter the program at any point desired. After the </> is entered, you will be prompted for the specific entry point (indicated in later sections).
- <cr> - Carriage return advances to the next section of the program. This is useful when reviewing data and no changes are necessary.

The following is a description of the various requests for input. Entry point letters are indicated in parentheses following step number. These are the letters to enter when prompted following entry of </> to update or review data. Only information specific to the computer procedure will be given here. For greater detail see same step number under manual procedures.

1. SSN - Nine digits must be entered without hyphens or spaces.
2. (N) Name
3. (Z) Zip Code of testing site
4. (D) Demographic Information - Enter with at least one space between each item. Dates may be entered with hyphens, slashes, or blanks separating numbers. Letters may also be used for month.
5. (P) Maximum Paygrade - Enter numbers only with at least one space between items. The computer will print out result with minimum areas listed. These are the areas which restrict the applicant to the paygrade indicated and no higher. Remember, if the only minimum area for E3 is work experience, this requirement may be waived. The applicant must still, of course, pass the appropriate test.
6. (X) DOT - Navy Cross-Reference.
 - a. The computer allows you to determine the three-digit DOT code that corresponds to the applicant's area of work. Entering <Ø> produces the one-digit occupational categories. From this, you may enter the appropriate category. The computer then displays the associated two-digit occupational divisions. From this, you may enter appropriate division. The computer then displays the associated three-digit occupational groups. From this, you may enter the appropriate group. At any point in the cross-reference program, you may enter any one-, two-, or three-digit code to either bypass the system or re-start it. Once you specify the three-digit group, the computer displays the associated Navy ratings. Starred ratings are those that are part of the LEAP pilot project for which tests are available.

- b. At this point, you may enter any rating desired, including non-LEAP ratings. The computer will display a brief description of any rating entered. A description of educational correspondence is also included. This is an indication of the number of semester hours of credit by course that an individual in a given Navy rate could receive. Thus, the applicant should be familiar with the subjects listed if he expects to qualify for that rate. The computer also offers the option to re-examine the DOT codes by entering a <l>. Simply entering a carriage return advances the program to the next section. This should be done when a rating has been selected.
7. (B) Background Information for Rating Qualification - Enter the appropriate information with at least one space between each number. The computer will indicate if the applicant has qualified for the rating indicated. If unqualified, the computer displays what caused the disqualification. Also displayed will be test results of any previous test. CAUTION: Do not issue a test for a given rating if the applicant has already taken that test. At this point a <*> should be entered to store the data and terminate the program. You will re-enter the program again when you have the applicant's test scores. At that time, following entry of the SSN, the computer will ask where you want to enter the program. Enter a carriage return to enter test results.
8. <cr> Test Results - The computer will display the results of any previous test. Then, enter the rating of the test taken. Next, enter the results for E4, E5, E6, with at least one space between each number. The computer will respond with the paygrade at which the applicant has qualified with an indication of the paygrade limitation determined in Step 5.
9. (*) This concludes the program, and the computer stores all the data entered and requests further input. At this point, any entry other than a <+> causes the computer to log off. A <+> causes the program to begin at the request for SSN. This is in case you have more than one applicant to process at this time.

The SELECT program is designed to take care of most entry errors. If there seems to be a problem in accepting your entries, it may be due to the terminal not being set to lower case, or garbage on the phone lines. Therefore, be sure the terminal is set to lower case and re-enter the data. If this fails to resolve the problem, attempt the following in order: (1) Enter <select> to re-initiate the program, (2) Enter <"i cms> to re-initialize the system, (3) log off and log on again. If the problem continues, please call Dr. Marc Hamovitch at NPRDC - (714) 225-6911.

SELECT DATA SHEET

1. SSN 123 - 45 - 6789

2. Name JONES, JR

3. Zip Code 92152

4. Demographic Information

a. Sex M

b. Race C

c. Ethnic X

d. Civilian Education 12D

e. Date of Birth Da/Mo/Yr 4 1 7 156

f. Prior Service

(1) Branch N

(2) Length Yr/Mo/Da 3 1 11 15

5. Maximum Paygrade E5

a. Months of Work Experience 60

b. Months of Supervisory Work Experience 6

c. Hours of Specific Vocational Training 4000

d. Work/Training (c+(1000*a÷12)) (9000)

6. DOT Code 828

7. Rating Qualification ET +

a. Color Perception 1

b. Hearing 1

c. Speech 1

d. U.S. Citizen 1

e. Eligible for Security Clearance 1

f. Uncorrected Vision 20 / 20

g. Corrected Vision 20 / 20

8. Test Results ET3

a. E4 112

b. E5 25

c. E6 5

9. Final Recommendation ET3

DATA SHEET TABLES

PAYGRADE STANDARDS (STEP 5)

RATING QUALIFICATION (STEP 7)

TEST CRITERIA (STEP 8)

TABLES FOR SELECT DATA SHEET

Paygrade Standards

Pay Grade	(a) Work Exp.	(b) Sup. Work Exp.	(c) Training	(d) Work Exp/ Training	Pay
E3	0	0	0	2000	\$ 642.60
E4	12	0	0	2000	\$ 682.20
E5	24	0	0	4000	\$ 731.40
E6	72	12	3000	9000	\$ 833.10
E7	96	18	4000	12000	\$ 968.70

Rating Qualification

Rating	Col. Perc.	Hearing	Speech	US Cit.	Secur.	Uncorr. Vision 20/ __	Correct Vision 20/ __
AE	1	2	2	1	1	-	-
AT	1	2	2	1	1	-	-
EM	1	2	2	2	2	-	-
EN	2	2	2	2	2	-	-
ET	1	1	2	1	1	-	-
FTG	1	2	2	1	1	20	20
HT	1	2	2	1	1	-	-
IM	1	2	2	1	1	20	20
MM	2	2	2	2	2	-	-
MR	2	2	2	2	2	100	20
MS	2	2	2	2	2	-	-
SK	2	2	2	2	2	-	-
YN	2	2	2	1	1	-	-

Test Criteria

Rating	E-4	E-5	E-6
AE	80	19	-
AT	56	40	11
EM	47	45	14
EN	61	37	10
ET	81	22	9
FTG	61	26	21
HT	73	20	17
IM	52	25	30
MM	74	24	12
MR	59	36	13
MS	82	16	14
SK	77	16	18
YN	58	20	12

DOT STRUCTURE
(STEP 6)

SUMMARY LISTING OF OCCUPATIONAL CATEGORIES, DIVISIONS, AND GROUPS

OCCUPATIONAL CATEGORIES

- 00/1 Professional, technical, and managerial occupations
- 2 Clerical and sales occupations
- 3 Service occupations
- 4 Agricultural, fishery, forestry, and related occupations
- 5 Processing occupations
- 6 Machine trades occupations
- 7 Benchwork occupations
- 8 Structural work occupations
- 9 Miscellaneous occupations

PROCESSING OCCUPATIONS

- 50 Occupations in processing of metal
- 51 Ore refining and foundry occupations
- 52 Occupations in processing of food, tobacco, and related products
- 53 Occupations in processing of paper and related materials
- 54 Occupations in processing of petroleum, coal, natural and manufactured gas, and related products
- 55 Occupations in processing of chemicals, plastics, synthetics, rubber, paint, and related products
- 56 Occupations in processing of wood and wood products
- 57 Occupations in processing of stone, clay, glass, and related products
- 58 Occupations in processing of leather, textiles, and related products
- 59 Processing occupations, n.e.c.

TWO-DIGIT OCCUPATIONAL DIVISIONS

PROFESSIONAL, TECHNICAL, AND MANAGERIAL OCCUPATIONS

- 00/01 Occupations in architecture, engineering, and surveying
- 02 Occupations in mathematics and physical sciences
- 04 Occupations in life sciences
- 05 Occupations in social sciences
- 07 Occupations in medicine and health
- 09 Occupations in education
- 10 Occupations in museum, library, and archival sciences
- 11 Occupations in law and jurisprudence
- 12 Occupations in religion and theology
- 13 Occupations in writing
- 14 Occupations in art
- 15 Occupations in entertainment and recreation
- 16 Occupations in administrative specializations
- 18 Managers and officials, n.e.c.
- 19 Miscellaneous professional, technical, and managerial occupations

CLERICAL AND SALES OCCUPATIONS

- 20 Stenography, typing, filing, and related occupations
- 21 Computing and account-recording occupations
- 22 Production and stock clerks and related occupations
- 23 Information and message distribution occupations
- 24 Miscellaneous clerical occupations
- 25 Sales occupations, services
- 26 Sales occupations, consumable commodities
- 27 Sales occupations, commodities, n.e.c.
- 29 Miscellaneous sales occupations

SERVICE OCCUPATIONS

- 30 Domestic service occupations
- 31 Food and beverage preparation and service occupations
- 32 Lodging and related service occupations
- 33 Barbering, cosmetology, and related service occupations
- 34 Amusement and recreation service occupations
- 35 Miscellaneous personal service occupations
- 36 Apparel and furnishing service occupations
- 37 Protective service occupations
- 38 Building and related service occupations

AGRICULTURAL, FISHERY, FORESTRY, AND RELATED OCCUPATIONS

- 40 Plant farming occupations
- 41 Animal farming occupations
- 42 Miscellaneous agricultural and related occupations
- 44 Fishery and related occupations
- 45 Forestry occupations
- 46 Hunting, trapping, and related occupations

MACHINE TRADES OCCUPATIONS

- 60 Metal machining occupations
- 61 Metalworking occupations, n.e.c.
- 62/63 Mechanics and machinery repairers
- 64 Paperworking occupations
- 65 Printing occupations
- 66 Wood machining occupations
- 67 Occupations in machining stone, clay, glass, and related materials
- 68 Textile occupations
- 69 Machine trades occupations, n.e.c.

BENCHWORK OCCUPATIONS

- 70 Occupations in fabrication, assembly, and repair of metal products, n.e.c.
- 71 Occupations in fabrication and repair of scientific, medical, photographic, optical, horological, and related products
- 72 Occupations in assembly and repair of electrical equipment
- 73 Occupations in fabrication and repair of products made from assorted materials
- 74 Painting, decorating, and related occupations
- 75 Occupations in fabrication and repair of plastics, synthetics, rubber, and related products
- 76 Occupations in fabrication and repair of wood products
- 77 Occupations in fabrication and repair of sand, stone, clay, and glass products
- 78 Occupations in fabrication and repair of textile, leather, and related products
- 79 Bench work occupations, n.e.c.

STRUCTURAL WORK OCCUPATIONS

- 80 Occupations in metal fabricating, n.e.c.
- 81 Welders, cutters, and related occupations
- 82 Electrical assembling, installing, and repairing occupations
- 84 Painting, plastering, waterproofing, cementing, and related occupations
- 85 Excavating, grading, paving, and related occupations
- 86 Construction occupations, n.e.c.
- 89 Structural work occupations, n.e.c.

MISCELLANEOUS OCCUPATIONS

- 90 Motor freight occupations
- 91 Transportation occupations, n.e.c.
- 92 Packaging and materials handling occupations
- 93 Occupations in extraction of minerals
- 95 Occupations in production and distribution of utilities
- 96 Amusement, recreation, motion picture, radio and television occupations, n.e.c.
- 97 Occupations in graphic art work

THREE-DIGIT OCCUPATIONAL GROUPS

PROFESSIONAL, TECHNICAL, AND MANAGERIAL OCCUPATIONS

00/01	Occupations in architecture, engineering, and surveying	11	Occupations in law and jurisprudence
001	Architectural occupations	110	Lawyers
002	Aeronautical engineering occupations	111	Judges
003	Electrical/electronics engineering occupations	119	Occupations in law and jurisprudence, n.e.c.
005	Civil engineering occupations	12	Occupations in religion and theology
006	Ceramic engineering occupations	120	Clergy
007	Mechanical engineering occupations	129	Occupations in religion and theology, n.e.c.
008	Chemical engineering occupations	13	Occupations in writing
010	Mining and petroleum engineering occupations	131	Writers
011	Metallurgy and metallurgical engineering occupations	132	Editors: publication, broadcast, and script
012	Industrial engineering occupations	137	Interpreters and translators
013	Agricultural engineering occupations	139	Occupations in writing, n.e.c.
014	Marine engineering occupations	14	Occupations in art
015	Nuclear engineering occupations	141	Commercial artists: designers and illustrators, graphic arts
017	Drafters, n.e.c.	142	Environmental, product, and related designers
018	Surveying/cartographic occupations	143	Occupations in photography
019	Occupations in architecture, engineering, and surveying, n.e.c.	144	Fine artists: painters, sculptors, and related occupations
02	Occupations in mathematics and physical sciences	149	Occupations in art, n.e.c.
020	Occupations in mathematics	15	Occupations in entertainment and recreation
021	Occupations in astronomy	150	Occupations in dramatics
022	Occupations in chemistry	151	Occupations in dancing
023	Occupations in physics	152	Occupations in music
024	Occupations in geology	153	Occupations in athletics and sports
025	Occupations in meteorology	159	Occupations in entertainment and recreation, n.e.c.
029	Occupations in mathematics and physical sciences, n.e.c.	16	Occupations in administrative specializations
04	Occupations in life sciences	160	Accountants and auditors
040	Occupations in agricultural sciences	161	Budget and management systems analysis occupations
041	Occupations in biological sciences	162	Purchasing management occupations
045	Occupations in psychology	163	Sales and distribution management occupations
049	Occupations in life sciences, n.e.c.	164	Advertising management occupations
05	Occupations in social sciences	165	Public relations management occupations
050	Occupations in economics	166	Personnel administration occupations
051	Occupations in political science	168	Inspectors and investigators, managerial and public service
052	Occupations in history	169	Occupations in administrative specializations, n.e.c.
054	Occupations in sociology	18	Managers and officials, n.e.c.
055	Occupations in anthropology	180	Agriculture, forestry, and fishing industry managers and officials
059	Occupations in social sciences, n.e.c.	181	Mining industry managers and officials
07	Occupations in medicine and health	182	Construction industry managers and officials
070	Physicians and surgeons	183	Manufacturing industry managers and officials
071	Osteopaths	184	Transportation, communication, and utilities industry managers and officials
072	Dentists	185	Wholesale and retail trade managers and officials
073	Veterinarians	186	Finance, insurance, and real estate managers and officials
074	Pharmacists	187	Service industry managers and officials
075	Registered nurses	188	Public administration managers and officials
076	Therapists	189	Miscellaneous managers and officials, n.e.c.
077	Dietitians	19	Miscellaneous professional, technical, and managerial occupations
078	Occupations in medical and dental technology	191	Agents and appraisers, n.e.c.
079	Occupations in medicine and health, n.e.c.	193	Radio operators
09	Occupations in education	194	Sound, film, and videotape recording, and reproduction occupations
090	Occupations in college and university education	195	Occupations in social and welfare work
091	Occupations in secondary school education	196	Airplane pilots and navigators
092	Occupations in preschool, primary school, and kindergarten education	197	Ship captains, mates, pilots, and engineers
094	Occupations in education of the handicapped	198	Railroad conductors
096	Home economists and farm advisers	199	Miscellaneous professional, technical, and managerial occupations, n.e.c.
097	Occupations in vocational education, n.e.c.		
099	Occupations in education, n.e.c.		
10	Occupations in museum, library, and archival sciences		
100	Librarians	20	Stenography, typing, filing, and related occupations
101	Archivists	201	Secretaries
102	Museum curators and related occupations	202	Stenographers
109	Occupations in museum, library, and archival sciences, n.e.c.	203	Typists and typewriting-machine operators

205	Interviewing clerks	230	Hand delivery and distribution occupations
206	File clerks	231	Investigations, adjusters, and related occupations
207	Duplicating-machine operators and tenders	233	Government service clerks, n.e.c.
208	Mailing and miscellaneous office machine operators	245	Medical service clerks, n.e.c.
209	Stenography, typing, filing, and related occupations, n.e.c.	247	Advertising-service clerks, n.e.c.
21	Computing and account-recording occupations	248	Transportation-service clerks, n.e.c.
210	Bookkeepers and bookkeeping-machine operators	249	Miscellaneous clerical occupations, n.e.c.
211	Cashiers and tellers	25	Sales occupations, services
213	Electronic and electromechanical data processors	250	Sales occupations, real estate and insurance
214	Billing and rate clerks	251	Sales occupations, business and financial services
215	Payroll, timekeeping, and duty-roster clerks	252	Sales occupations, transportation services
216	Accounting and statistical clerks	253	Sales occupations, utilities
217	Account-recording-machine operators, n.e.c.	254	Sales occupations, printing and advertising
219	Computing and account-recording occupations, n.e.c.	259	Sales occupations, services, n.e.c.
22	Production and stock clerks and related occupations	26	Sales occupations, consumable commodities
221	Production clerks	260	Sales occupations, agricultural and food products
222	Shipping, receiving, stock, and related clerical occupations	261	Sales occupations, textile products, apparel, and notions
229	Production and stock clerks and related occupations, n.e.c.	262	Sales occupations, chemicals, drugs, and sundries
23	Information and message distribution occupations	269	Sales occupations, miscellaneous consumable commodities, n.e.c.
230	Hand delivery and distribution occupations	27	Sales occupations, commodities, n.e.c.
236	Telephone operators	270	Sales occupations, home furniture, furnishings, and appliances
237	Information and reception clerks	271	Sales occupations, electrical goods, except home appliances
238	Accommodation clerks and gate and ticket agents	272	Sales occupations, farm and gardening equipment and supplies
239	Information and message distribution occupations, n.e.c.	273	Sales occupations, transportation equipment, parts, and supplies
24	Miscellaneous clerical occupations	274	Sales occupations, industrial and related equipment and supplies
241	Investigators, adjusters, and related occupations	275	Sales occupations, business and commercial equipment and supplies
243	Government service clerks, n.e.c.	276	Sales occupations, medical and scientific equipment and supplies
245	Medical service clerks, n.e.c.	277	Sales occupations, sporting, hobby, stationery, and related goods
247	Advertising-service clerks, n.e.c.	279	Sales occupations, miscellaneous commodities, n.e.c.
248	Transportation-service clerks, n.e.c.	29	Miscellaneous sales occupations
249	Miscellaneous clerical occupations, n.e.c.	290	Sales clerks
25	Sales occupations, services	291	Vending and door to door selling occupations
250	Sales occupations, real estate and insurance	292	Route sales and delivery occupations
251	Sales occupations, business and financial services	293	Solicitors
252	Sales occupations, transportation services	294	Auctioneers
253	Sales occupations, utilities	295	Rental clerks
254	Sales occupations, printing and advertising	296	Shoppers
259	Sales occupations, services, n.e.c.	297	Sales promotion occupations
26	Sales occupations, consumable commodities	298	Merchandise displayers
260	Sales occupations, agricultural and food products		
261	Sales occupations, textile products, apparel, and notions		
262	Sales occupations, chemicals, drugs, and sundries		
269	Sales occupations, miscellaneous consumable commodities, n.e.c.		
27	Sales occupations, commodities, n.e.c.		
270	Sales occupations, home furniture, furnishings, and appliances		
271	Sales occupations, electrical goods, except home appliances		
272	Sales occupations, farm and gardening equipment and supplies		
273	Sales occupations, transportation equipment, parts, and supplies		
274	Sales occupations, industrial and related equipment and supplies		
275	Sales occupations, business and commercial equipment and supplies		
276	Sales occupations, medical and scientific equipment and supplies		
277	Sales occupations, sporting, hobby, stationery, and related goods		
279	Sales occupations, miscellaneous commodities, n.e.c.		

CLERICAL AND SALES OCCUPATIONS

20	Stenography, typing, filing, and related occupations
201	Secretaries
202	Stenographers
203	Typists and typewriting-machine operators

299	Miscellaneous sales occupations, n.e.c.	375	Police officers and detectives, public service	514	Pouring and casting occupations
	SERVICE OCCUPATIONS	376	Police officers and detectives, except in public service	515	Crushing and grinding occupations
300	Domestic service occupations	377	Sheriffs and bailiffs	518	Molders, coremakers, and related occupations
301	Household and related work	378	Armed forces enlisted personnel	519	Ore refining and foundry occupations, n.e.c.
302	Laundries, private family	379	Protective service occupations, n.e.c.		
303	Cooks, domestic	380	Building and related service occupations	520	Mixing, compounding, blending, kneading, shaping, and related occupations
304	Domestic service occupations, n.e.c.	381	Porters and cleaners	521	Separating, crushing, milling, chipping, grinding, and related occupations
305	Food and beverage preparation and service occupations	382	Janitors	522	Culturing, melting, fermenting, distilling, saturating, pickling, aging, and related occupations
306	Hosts/hostesses and stewards/stewardesses, food and beverage service, except ship stewards/stewardesses	383	Building pest control service occupations	523	Heating, rendering, melting, drying, cooling, freezing, and related occupations
307	Waiters/waitresses, and related food service occupations	384	Elevator operators	524	Coating, icing, decorating, and related occupations
308	Bartenders	385	Building and related service occupations, n.e.c.	525	Slaughtering, breaking, curing, and related occupations
309	Chefs and cooks, hotels and restaurants		AGRICULTURAL, FISHERY, FORESTRY, AND RELATED OCCUPATIONS	526	Cooking and baking occupations, n.e.c.
310	Miscellaneous cooks, except domestic	400	Plant farming occupations	529	Occupations in processing of food, tobacco, and related products, n.e.c.
311	Meatcutters, except in slaughtering and packing houses	401	Grain farming occupations		
312	Miscellaneous food and beverage preparation occupations	402	Vegetable farming occupations	530	Occupations in processing of paper and related materials
313	Kitchen workers, n.e.c.	403	Fruit and nut farming occupations	531	Grinding, beating, and mixing occupations
314	Food and beverage preparation and service occupations, n.e.c.	404	Field crop farming occupations, n.e.c.	532	Cooking and drying occupations
315	Lodging and related service occupations	405	Horticultural specialty occupations	533	Cooling, bleaching, screening, washing, and related occupations
316	Boarding-house and lodging-house keepers	406	Gardening and groundskeeping occupations	534	Calendering, sizing, coating, and related occupations
317	Housekeepers, hotels and institutions	407	Diversified crop farming occupations	535	Forming occupations, n.e.c.
318	Housecleaners, hotels, restaurants, and related establishments	408	Plant life and related service occupations	539	Occupations in processing of paper and related materials, n.e.c.
319	Belhops and related occupations	409	Plant farming and related occupations, n.e.c.		
320	Lodging and related service occupations, n.e.c.	410	Animal farming occupations	540	Occupations in processing of petroleum, coal, natural and manufactured gas, and related products
321	Barbering, cosmetology, and related service occupations	411	Domestic animal farming occupations	541	Mixing and blending occupations
322	Barbers	412	Domestic fowl farming occupations	542	Filtering, straining, and separating occupations
323	Manicurists	413	Game farming occupations	543	Distilling, subliming, and carbonizing occupations
324	Hairdressers and cosmetologists	414	Lower animal farming occupations	544	Dyeing, heating, and melting occupations
325	Make-up occupations	415	Animal service occupations	545	Grinding and crushing occupations
326	Masseurs and related occupations	416	Animal farming occupations, n.e.c.	546	Reacting occupations, n.e.c.
327	Bath attendants	417	Miscellaneous agricultural and related occupations	549	Occupations in processing of petroleum, coal, natural and manufactured gas, and related products, n.e.c.
328	Embalmers and related occupations	418	General farming occupations		
329	Barbering, cosmetology, and related service occupations, n.e.c.	419	Miscellaneous agricultural and related occupations, n.e.c.	550	Occupations in processing of chemicals, plastics, synthetics, rubber, paint, and related products
330	Amusement and recreation service occupations	420	Fishery and related occupations	551	Mixing and blending occupations
331	Amusement and recreation service occupations	421	Net, seine, and trap fishers	552	Filtering, straining, and separating occupations
332	Attendants, bowling alley and billiard parlor	422	Line fishers	553	Disinfecting occupations
333	Attendants, golf course, tennis court, skating rink, and related facilities	423	Fishers, miscellaneous equipment	554	Heating, baking, drying, seasoning, melting, and heat-treating occupations
334	Amusement device and concession attendants	424	Aquatic life cultivation and related occupations		
335	Gambling hall attendants	425	Sponge and seaweed gatherers	555	Coating, calendering, laminating, and finishing occupations
336	Ushers	426	Fishery and related occupations, n.e.c.	556	Grinding and crushing occupations
337	Wardrobe and dressing-room attendants	427	Forestry occupations	557	Casting and molding occupations, n.e.c.
338	Amusement and recreation service occupations, n.e.c.	428	Tree farming and related occupations	558	Extruding occupations
339	Amusement and recreation service occupations	429	Forest conservation occupations	559	Reacting occupations, n.e.c.
340	Ship stewards/stewardesses and related occupations	430	Occupations in harvesting forest products, except logging		
341	Train attendants	431	Logging and related occupations	560	Mixing and related occupations
342	Hosts/hostesses and stewards/stewardesses, n.e.c.	432	Log grading, scaling, sorting, rafting, and related occupations	561	Wood preserving and related occupations
343	Guides	433	Forestry occupations, n.e.c.	562	Saturating, evuating, and related occupations, n.e.c.
344	Unlicensed birth attendants and practical nurses	434	Hunting, trapping, and related occupations	563	Drying, seasoning, and related occupations
345	Attendants, hospitals, morgues, and related health services	435	Hunting and trapping occupations	564	Grinding and chopping occupations, n.e.c.
346	Baggage handlers	436	Processing occupations	569	Occupations in processing of wood and wood products, n.e.c.
347	Checkroom, locker room, and restroom attendants		PROCESSING OCCUPATIONS		
348	Miscellaneous personal service occupations, n.e.c.	500	Occupations in processing of metal	570	Crushing, grinding, and mixing occupations
349	Apparel and furnishings service occupations	501	Electroplating occupations	571	Separating occupations
350	Laundry occupations	502	Dip plating occupations	572	Melting occupations
351	Dry cleaning occupations	503	Melting, pouring, casting, and related occupations	573	Baking, drying, and heat-treating occupations
352	Pressing occupations	504	Pickling, cleaning, degreasing, and related occupations	574	Impregnating, coating, and glazing occupations
353	Dyeing and related occupations	505	Heat-treating occupations	575	Forming occupations
354	Shoe and luggage repairer and related occupations	506	Metal spraying, coating, and related occupations	579	Occupations in processing of stone, clay, glass, and related products, n.e.c.
355	Bookbinders and related occupations	507	Occupations in processing of metal, n.e.c.		
356	Apparel and furnishings service occupations, n.e.c.	510	Ore refining and foundry occupations		
357	Protective service occupations	511	Mixing and related occupations		
358	Crossing tenders and bridge operators	512	Separating, filtering, and related occupations		
359	Security guards and correction officers, except crossing tenders	513	Melting occupations		
360	Fire fighters, fire department		Roubling occupations		

58	Occupations in processing of leather, textiles, and related products	659	Printing occupations, n.e.c.	719	Occupations in fabrication and repair of scientific and medical apparatus, photographic and optical goods, barological, and related products, n.e.c.
580	Shaping, blocking, stretching, and tenting occupations	660	Wood machining occupations	720	Occupations in assembly and repair of electrical equipment
581	Separating, filtering, and drying occupations	661	Cabinetmakers	721	Occupations in assembly and repair of radio and television receiving sets and phonographs
582	Washing, steaming, and saturating occupations	662	Patternmakers	722	Occupations in assembly and repair of motors, generators, and related products
583	Ironing, pressing, glazing, staking, calendaring, and embossing occupations	663	Sanding occupations	723	Occupations in assembly and repair of communications equipment
584	Mercurizing, coating, and laminating occupations	664	Shearing and shaving occupations	724	Occupations in assembly and repair of electrical appliances and fixtures
585	Singeing, cutting, shearing, shaving, and napping occupations	665	Turning occupations	725	Occupations in winding and assembling coils, magnets, armatures, and related products
586	Felting and fulling occupations	666	Milling and planing occupations	726	Occupations in assembly of light bulbs and electronic tubes and accessories, n.e.c.
587	Brushing and shrinking occupations	667	Boring occupations	727	Occupations in assembly and repair of electronic components
589	Occupations in processing of leather, textiles, and related products, n.e.c.	669	Sawing occupations	728	Occupations in assembly of storage batteries
59	Processing occupations, n.e.c.	670	Wood machining occupations, n.e.c.	729	Occupations in fabrication of electrical wire and cable
590	Occupations in processing products from assorted materials	671	Occupations in machining stone, clay, glass, and related materials	730	Occupations in assembly and repair of electrical equipment, n.e.c.
599	Miscellaneous processing occupations, n.e.c.	672	Stonecutters and related occupations	731	Occupations in fabrication and repair of products made from assorted materials
	MACHINE TRADES OCCUPATIONS	673	Abgrading occupations	732	Occupations in fabrication and repair of musical instruments and parts
600	Metal machining occupations	674	Turning occupations	733	Occupations in fabrication and repair of games and toys
601	Machinists and related occupations	675	Planing and shaping occupations, n.e.c.	734	Occupations in fabrication and repair of sporting goods
602	Toolmakers and related occupations	676	Boring and punching occupations	735	Occupations in fabrication and repair of pens, pencils, and office and artists' materials, n.e.c.
603	Gear machining occupations	677	Chipping, cutting, sawing, and related occupations	736	Occupations in fabrication and repair of notions
604	Abgrading occupations	679	Occupations in machining stone, clay, glass, and related materials, n.e.c.	737	Occupations in fabrication and repair of jewelry, n.e.c.
605	Turning occupations	680	Textile occupations	738	Occupations in fabrication and repair of ordnance and accessories
606	Milling, shaping, and planing occupations	681	Carding, combing, drawing, and related occupations	739	Occupations in fabrication of ammunition, fireworks, explosives, and related products
607	Boring occupations	682	Twisting, beaming, warping, and related occupations	740	Occupations in fabrication and repair of products made from assorted materials, n.e.c.
609	Sawing occupations	683	Spinning occupations	741	Painters, brush
610	Metal machining occupations, n.e.c.	684	Weavers and related occupations	742	Painters, spray
611	Hammer forging occupations	685	Hosiery knitting occupations	743	Staining, waxing, and related occupations
612	Press forging occupations	686	Knitting occupations, except hosiery	744	Painting, decorating, and related occupations
613	Forging occupations, n.e.c.	687	Punching, cutting, forming, and related occupations	745	Occupations in fabrication and repair of plastics, synthetics, rubber, and related products
614	Sheet and bar rolling occupations	689	Tufting occupations	750	Occupations in fabrication and repair of tires, tubes, tire trends, and related products
615	Extruding and drawing occupations	690	Machine trades occupations, n.e.c.	751	Laying out and cutting occupations, n.e.c.
616	Punching and shearing occupations	691	Plastics, synthetics, rubber, and leather working occupations	752	Fitting, shaping, cementing, finishing, and related occupations, n.e.c.
617	Fabricating machine occupations	692	Occupations in fabrication of products from assorted materials	753	Occupations in fabrication and repair of rubber and plastic footwear
619	Forming occupations, n.e.c.	693	Modelmakers, patternmakers, and related occupations	754	Occupations in fabrication and repair of miscellaneous plastics products
62/63	Mechanics and machinery repairs	694	Occupations in fabrication of ordnance, ammunition, and related products, n.e.c.	759	Occupations in fabrication and repair of plastics, synthetics, rubber, and related products, n.e.c.
620	Motorized vehicle and engineering equipment mechanics and repairs	699	Miscellaneous machine trades occupations, n.e.c.	76	Occupations in fabrication and repair of wood products
621	Aircraft mechanics and repairs		BENCHWORK OCCUPATIONS	760	Bench carpenters and related occupations
622	Rail equipment mechanics and repairs	70	Occupations in fabrication, assembly, and repair of metal products, n.e.c.	761	Occupations in laying out, cutting, carving, shaping, and sanding wood products, n.e.c.
623	Marine mechanics and repairs	700	Occupations in fabrication, assembly, and repair of jewelry, silverware, and related products	762	Occupations in assembling wood products, n.e.c.
624	Farm mechanics and repairs	701	Occupations in fabrication, assembly, and repair of tools, and related products	763	Occupations in fabrication and repair of furniture, n.e.c.
625	Engine, power transmission, and related mechanics	703	Occupations in assembly and repair of sheetmetal products, n.e.c.	764	Cooperage occupations
626	Metalworking machinery mechanics	704	Engravers, etchers, and related occupations	769	Occupations in fabrication and repair of wood products, n.e.c.
627	Printing and publishing mechanics and repairs	705	Filing, grinding, buffing, cleaning, and polishing occupations, n.e.c.	77	Occupations in fabrication and repair of sand, stone, clay, and glass products
628	Textile machinery and equipment mechanics and repairs	706	Metal unit assemblers and adjusters, n.e.c.	770	Occupations in fabrication and repair of jewelry, ornaments, and related products
629	Special industry machinery mechanics	709	Miscellaneous occupations in fabrication, assembly, and repair of metal products, n.e.c.	771	Stone cutters and carvers
630	General industry mechanics and repairs	71	Occupations in fabrication and repair of scientific, medical, photographic, optical, barological, and related products	772	Glass blowing, pressing, shaping, and related occupations, n.e.c.
631	Powerplant mechanics and repairs	710	Occupations in fabrication and repair of instruments for measuring, controlling, and indicating physical characteristics	773	Occupations in coloring and decorating brick, tile, and related products
632	Ordnance and accessories mechanics and repairs	711	Occupations in fabrication and repair of optical instruments		
633	Business and commercial machine repairs	712	Occupations in fabrication and repair of surgical, medical, and dental instruments and supplies		
637	Utilities service mechanics and repairs	713	Occupations in fabrication and repair of ophthalmic goods		
638	Miscellaneous occupations in machine installation and repair	714	Occupations in fabrication and repair of photographic equipment and supplies		
639	Mechanics and machinery repairs, n.e.c.	715	Occupations in fabrication and repair of watches, clocks, and parts		
64	Paperworking occupations	716	Occupations in fabrication and repair of engineering and scientific instruments and equipment, n.e.c.		
640	Paper cutting, winding, and related occupations				
641	Folding, creasing, scoring, and gluing occupations				
649	Paperworking occupations, n.e.c.				
65	Printing occupations				
650	Typesetters and compositors				
651	Printing press occupations				
652	Printing machine occupations				
653	Bookbinding-machine operators and related occupations				
654	Typecasters and related occupations				

774	Occupations in fabrication and repair of pottery and porcelain ware	829	Occupations in installation and repair of electrical products, n.e.c.	953	Occupations in production and distribution of gas
775	Grinding, filing, polishing, frosting, etching, cleaning, and related occupations, n.e.c.	84	Painting, plastering, waterproofing, cementing, and related occupations	954	Occupations in filtration, purification, and distribution of water
776	Occupations in fabrication and repair of asbestos and polishing products, abrasives, and related materials	840	Construction and maintenance painters and related occupations	955	Occupations in distribution of steam
777	Modelmakers, patternmakers, moldmakers, and related occupations	841	Paperhangers	956	Occupations in production and distribution of utilities, n.e.c.
779	Occupations in fabrication and repair of sand, stone, clay, and glass products, n.e.c.	842	Plasterers and related occupations	96	Amusement, recreation, motion picture, radio and television occupations, n.e.c.
78	Occupations in fabrication and repair of textile, leather, and related products	843	Waterproofing and related occupations	960	Motion picture projectionists
780	Occupations in upholstering and in fabrication and repair of stuffed furniture, mattresses, and related products	844	Cement and concrete finishing and related occupations	961	Models, stand-ins, and extras, n.e.c.
781	Laying out, marking, cutting, and punching occupations, n.e.c.	845	Transportation equipment painters and related occupations	962	Occupations in motion picture, television, and theatrical productions, n.e.c.
782	Hand sewers, menders, embroiders, knitters, and related occupations, n.e.c.	849	Painting, plastering, waterproofing, cementing, and related occupations, n.e.c.	969	Miscellaneous amusement and recreation occupations, n.e.c.
783	Fur and leather working occupations	85	Excavating, grading, paving, and related occupations	97	Occupations in graphic art work
784	Occupations in fabrication and repair of hats, caps, gloves, and related products	850	Excavating, grading, and related occupations	970	Art work occupations, brush, spray, or pen
785	Tailors and dressmakers	851	Drainage and related occupations	971	Photoengraving occupations
786	Sewing machine operators, garment	853	Paving occupations, asphalt and concrete	972	Lithographers and related occupations
787	Sewing machine operators, nongarment	859	Excavating, grading, paving, and related occupations, n.e.c.	973	Hand compositors, typesetters, and related occupations
788	Occupations in fabrication and repair of footwear	86	Construction occupations, n.e.c.	974	Electrotypers, stereotypers, and related occupations
789	Occupations in fabrication and repair of textile, leather, and related products, n.e.c.	860	Carpenters and related occupations	976	Darkroom occupations, n.e.c.
79	Bench work occupations, n.e.c.	861	Brick and stone masons and tile setters	977	Bookbinders and related occupations
790	Occupations in preparation of food, tobacco, and related products, n.e.c.	862	Plumbers, gas fitters, steam fitters, and related occupations	979	Occupations in graphic art work, n.e.c.
794	Occupations in fabrication of paper products, n.e.c.	863	Asbestos and insulation workers		
795	Gluing occupations, n.e.c.	864	Floor laying and finishing occupations		
		865	Glaziers and related occupations		
		866	Roofers and related occupations		
		869	Miscellaneous construction occupations, n.e.c.		
		89	Structural work occupations, n.e.c.		
		891	Occupations in structural maintenance, n.e.c.		
		899	Miscellaneous structural work occupations, n.e.c.		
STRUCTURAL WORK OCCUPATIONS					
80	Occupations in metal fabricating, n.e.c.	MISCELLANEOUS OCCUPATIONS			
800	Riveters, n.e.c.	90	Motor freight occupations		
801	Fitting, bolting, screwing, and related occupations	900	Concrete-mixing-truck drivers		
804	Tinsmiths, coppermiths, and sheet metal workers	902	Dump-truck drivers		
805	Boilermakers	903	Truck drivers, inflammables		
806	Transportation equipment assemblers and related occupations	904	Trailer-truck drivers		
807	Body workers, transportation equipment	905	Truck drivers, heavy		
809	Miscellaneous occupations in metal fabricating, n.e.c.	906	Truck drivers, light		
81	Welders, cutters, and related occupations	909	Motor freight occupations, n.e.c.		
810	Arc welders and cutters	91	Transportation occupations, n.e.c.		
811	Gas welders	910	Railroad transportation occupations		
812	Resistance welders	911	Water transportation occupations		
813	Brazing, braze-welding, and soldering occupations	912	Air transportation occupations		
814	Solid state welders	913	Passenger transportation occupations, n.e.c.		
815	Electron-beam; electroslag; thermit; induction; and laser-beam welders	914	Pumping and pipeline transportation occupations		
816	Thermal cutters and arc cutters	915	Attendants and servicers, parking lots and automotive service facilities		
819	Welders, cutters, and related occupations, n.e.c.	919	Miscellaneous transportation occupations, n.e.c.		
82	Electrical assembling, installing, and repairing occupations	92	Packaging and materials handling occupations		
820	Occupations in assembly, installation, and repair of generators, motors, accessories, and related powerplant equipment	920	Packaging occupations		
821	Occupations in assembly, installation, and repair of transmission and distribution lines and circuits	921	Hoisting and conveying occupations		
822	Occupations in assembly, installation, and repair of wire communication, detection and signaling equipment	922	Occupations in moving and storing materials and products, n.e.c.		
823	Occupations in assembly, installation, and repair of electronic communication, detection, and signaling equipment	929	Packaging and materials handling occupations, n.e.c.		
824	Occupations in assembly, installation, and repair of lighting equipment and building wiring, n.e.c.	93	Occupations in extraction of minerals		
825	Occupations in assembly, installation, and repair of transportation and materials handling equipment, n.e.c.	930	Earth boring, drilling, cutting, and related occupations		
826	Occupations in assembly, installation, and repair of industrial apparatus, n.e.c.	931	Blasting occupations		
827	Occupations in assembly, installation, and repair of large household appliances and similar commercial and industrial equipment	932	Loading and conveying operations		
828	Occupations in fabrication, installation, and repair of electrical and electronics products, n.e.c.	933	Crushing occupations		
		934	Screening and related occupations		
		939	Occupations in extraction of minerals, n.e.c.		
		95	Occupations in production and distribution of utilities		
		950	Stationary engineers		
		951	Fitters and related occupations		
		952	Occupations in generation, transmission, and distribution of electric light and power		

DOT - NAVY RATING
CROSS REFERENCE
(STEP 6)

001 DM EA
 002 AM
 003 ST OT AE* AQ AS AT* AX CE CTM DS
 EM* ET* EW FT* GM GS IC TD TM
 005 DM EA
 011 AM HT*
 012 DP PN
 014 DM EA
 017 DM EA
 018 DM EA IS
 019 ST EM* PH OM AM AQ AS AT* AX CTM
 DM DP DS EA ET* EW FT* HT* IS PN
 TD
 020 AG DP DS
 021 AG QM
 022 PN HM PN
 025 AG OT QM
 029 AB AD AG BT DP DS EA HM IS OT
 QM
 041 HM
 045 NC PN
 049 DT HM NC PN
 059 IS
 074 HM
 075 DM HM
 076 HM
 078 DT HM
 079 DT HM
 097 TD
 099 TD
 119 LN YN*
 120 RP
 129 RP
 130 JO PH
 131 JO PH
 132 JO
 137 CTI
 139 CTI JO PH
 141 DM
 143 IC JO PH
 149 HM PH TD
 152 MU
 159 JO MU
 160 BU SH AK DK SK*
 166 NC PN
 168 BT BU CE CM EA EN* HM HT* SW UT
 169 LN RP AK AZ CTA DK NC PN SK* YN*
 182 CM HT* BU CE EA EO SW UT
 183 HT* ML PM
 184 CTA CTI CTO CTR CTT IC UT BM JO QM
 RM SK* SM YN*
 185 AK MS* SH SK*
 187 MS* SH
 189 BM BU EA JO MS* QM RM SH SK* SM
 YN*
 193 AC AW CTO CTR CTT EW OS OT RM ST
 194 JO PH TD
 195 HM NC PN
 197 BM BT EN* QM
 199 HT* AC AM BM BT EN* EW HM OS OT
 PH QM RM ST TD
 201 LN CTA PN YN*
 202 LN CTA PN YN*
 203 LN CTA CTO CTR CTT DP PN RM SK* YN*
 205 CTA NC PN
 206 AK DP DP PN SK* YN*
 207 CTA DP PN YN*
 208 PN CTA CTO LN LN PC YN*
 209 AK AZ DK DP LN PC PN RM SH SK*
 YN*
 210 AK AZ DK DP PC SH SK*
 211 AK DK PC SH SK*
 213 AG CTO CTT DP IS OS OT YN*
 214 AK DK PC SK* YN*
 215 DK SH SK* YN*
 216 AK AZ DK DP SH SK* YN*
 217 AK AZ DK PC SK* YN*
 219 AG AK AZ DK DP OS PC SH SK* YN*
 221 AK AZ DK PC SH SK*
 222 AK AO GM PC SH SK*
 223 AK SK*
 229 AK AZ DK PC SH SK*
 230 PC
 231 PC
 232 PC
 233 PC
 234 PC
 235 IC OS
 236 CTT CTO CTR RM
 237 LN CTA AZ PN YN*
 238 PN SK* YN*
 239 CTO CTR CTT DT HM IC OS PC PN RM
 SK* YN*
 241 AK DK DT HM SH SK*
 243 PC

245 DT HM PN SH
 248 AC AK
 249 AC AK CTA DK DT HM IS MS* PC PN
 SH SK* YN*
 259 SH
 260 SH
 261 SH
 262 SH
 269 SH
 270 SH
 271 SH
 272 SH
 273 SH
 274 SH
 275 SH
 276 DT HM SH
 277 SH
 279 AK SK* SH
 290 AK SK* SH
 291 SH
 292 SH
 293 SH
 294 SH
 295 SH
 296 SH
 297 SH
 298 AK SK* SH
 299 DK PC SK* HM MS* SH
 301 MS* SH
 302 SH
 305 MS*
 309 MS* SH
 310 MS*
 311 MS*
 312 MS*
 313 MS*
 315 HM MS*
 316 MS*
 317 MS*
 318 MS*
 319 MS*
 320 MS* SH
 321 SH SK*
 329 SH SK*
 330 SH
 332 SH
 338 HM
 339 HM SH
 354 HM
 355 HM
 359 DT HM
 361 SH
 362 SH
 363 SH
 369 SH
 372 MA
 373 AB BT HT* MM* UT
 375 MA
 376 MA
 377 MA
 378 ALL
 379 AB BT HT* MA MM* UT
 389 NONE
 502 HT* ML MR* PM
 503 NONE
 504 AM HT* SW
 505 AM HT* ML
 509 AM HT* ML MR* PM SW
 511 AM ML
 512 ML
 514 ML
 515 EO
 518 ML PH
 519 AM EO ML PM
 520 MS*
 521 MS*
 522 MS*
 523 MS*
 524 MS*
 525 CTI MS*
 526 MS*
 529 MS*
 540 BT MM* UT
 541 BT MM* UT
 542 BT MM* UT
 543 BT MM* UT
 544 EO OM
 546 BT MM* UT
 549 EO MM* UT
 550 BU UT
 551 BU UT
 552 AM MM* PR
 553 BU TD UT
 554 BU UT
 555 EO

556 ML
 539 AM BU EO ML MM* PM PR
 UT
 560 BU HT* PM
 561 BU HT* PM
 562 BU HT* PM
 563 BU HT* PM
 564 BU HT* PM
 569 BU HT* PM
 570 BU EO HT*
 571 BU HT*
 572 BU HT*
 573 BU HT*
 574 BU HT*
 575 BU HT*
 579 BU EO HT*
 600 AD AM EM* IM* MM* MR* PM
 601 BT BU HM IM* ML MM* MR*
 PM SW
 602 CTA EN* MM* MR*
 603 BU MR*
 604 MR*
 605 BU MR* PM
 606 BU MM* MR*
 607 BU
 609 AD AM BU EM* EN* ML MM*
 MR* PM
 610 ML MR*
 611 ML MR* SW
 612 ML MR* SW
 613 HT* ML MR* SW
 614 ML SW
 615 AM HT* SW
 616 AM EA HT* ML MR* SW
 617 ML
 619 AM BU HT* JO ML MR* RM
 SW
 620 AD AS CM CM EN* EQ GS
 MM* SH SK*
 621 AD AE* AM AS EN* FT* GM
 MM* TH
 622 EN* MM*
 623 BT EN* GS MM*
 624 EN* MM*
 625 AD AS CM EN* GS MM*
 626 MM* MR*
 627 LI MM*
 628 MM*
 629 AD AE* AM AQ AS BT CM
 EN* FT* LI MM* MN TM
 630 BT MM* UT
 631 BT CE EM* EN* GS GS MM*
 632 ST AC AO AQ AT* AW AX
 CTH CTR CTT ET* EW FT* GM
 GMT MN RM TM
 633 DP DS IM* IS PH
 637 AM EN* HT* MM* UT
 638 AB BT EN* UT
 639 AB AM GM AD AO AQ AS
 AT* AX BT CE CM CTH DP
 DS EM* EN* ET* FT* GMT GS
 IS MM* MN OM PR QM ST
 TM UT
 650 LI
 651 LI
 652 LI YN*
 653 LI
 654 LI YN*
 659 CTO DP LI RM YN*
 660 BU PM
 661 BU PM
 662 BU
 663 BU
 664 BU MR*
 665 BU MR* PM
 666 BU
 667 BU
 669 BU MR* PM
 670 RU
 673 BU
 674 BU
 675 BU OM
 676 BU
 677 BU
 679 BU OM
 689 BU PR SH
 690 BU DK UT
 691 ML MR*
 692 ML MR*
 693 ML PM
 694 AO GM GMT MN TM
 699 GM AK BU HT* ML MN MR*
 PM SH SK* TM UT
 700 IM* MR*
 701 IM* MR*

703 BU HT* PM SW
 704 MR*
 705 MM* HR*
 706 IM*
 709 BU HT* IM* MM* MR* OM PM
 SW
 710 ET* IC IM* MN OM
 711 IM* OM
 712 DT HM IM*
 713 DT HM IM*
 714 OM EM* IM* PH TD
 715 IM* OM
 716 IM* OM
 719 DT EM* ET* IC IM* OM PH
 TD
 720 ET* IC OT RM ST TD
 721 AS EM* IC
 722 ST AQ AT* AX CTM DS ET*
 FT* TD
 723 CE EM* IC
 724 CE EM* IC
 725 CE EM* IC
 726 ST AQ AT* AX ET* FT* OS
 RM TD
 728 CE
 729 AQ AT* AX CTM DS EM* ET*
 FT* IC IM* OT RM ST TD
 734 SH
 735 IM*
 736 AO GM GMT MN TM
 737 AO GM GMT MN TM
 739 AM AC AO BM GMT IM* MN
 PR SH TM
 740 BU
 741 BU
 742 BU
 749 BU
 750 CM
 752 AS BU
 754 BU
 759 AS BU
 760 BU PM
 761 BU PM
 762 BU PM
 763 BU PM
 764 BU PM
 768
 769 BU PM
 770 BU
 771 BU
 772 BU
 773 BU
 774 BU
 775 BU
 776 BU
 777 ML
 779 BU ML PM
 780 PR
 782 PR SH
 783 SH
 784 SH
 785 PR SH
 786 PR SH
 787 PR SH
 788 PR SH
 789 BM PR SH
 790 MS*
 799 MS*
 800 AM HT* SW
 801 HT* SW
 804 AM HT* SW
 805 BT MM* UT
 806 AM HT* ML SW
 807 AM CM
 809 AM BT BU CM HT* ML MM*
 SW UT
 810 AM HT* ML SW
 811 AM HT* ML SW
 812 AM HT* ML SW
 813 AM HT* ML SW
 814 AM HT* ML SW
 815 AM HT* ML SW
 816 AM HT* ML SW
 819 AM HT* ML SW UT
 820 AD BT CE EN* GS MM* MR*
 821 CE EM* IC
 822 AQ AT* CE CTM EM* ET* FT*
 IC OT RM
 823 AG AT* AX CTM ET* IC OT
 RM ST
 824 AE* CE EM* IC
 825 AS AE* CE CM EM* IC
 826 CE
 827 CE EM*

828 AS AE* AQ AT* AX CE CTM
 DS EM* ET* EW FT* GM GMT
 GS IC MN OT RM ST TD
 TM
 829 AS AE* AQ AT* AX CE CTM
 DS EM* ET* EW FT* GM GMT
 GS IC MN OT RM ST TD
 TM
 840 BU
 841 BU
 842 BU
 843 BU
 844 BM BU QM SM
 845 AB AM BM
 849 ABM AM BM BU PR
 850 BU EO UT
 851 BU UT
 853 BU EO
 859 BU EO
 860 BM BU EO HT* PM
 861 BU
 862 BU HT* UT
 863 BU
 864 BU
 866 BU
 869 AM BM BU EA EO EQ HT*
 PM UT
 891 BU HT* UT
 899 BM BU EO HT* SW UT
 900 EO
 902 EO
 903 EO
 904 EO
 905 EO
 906 AS EO
 909 AS EO
 910 EO
 911 SM BM QM
 912 SK* AK AB AS BM PR
 914 AB UT
 915 CM
 919 EO AB AS BM PR
 920 AK SK*
 921 AB BM EO SK*
 922 AK EO SK*
 929 AB AK BM EO SH SK*
 930 EO
 931 MN
 932 BM
 933 EO
 934 EO
 939 EO MN
 950 BT EN* MM* UT
 951 AB BT HT* UT
 952 AS BT CE CM EM* EN* EO
 ET* GS IC MM* SW UT
 953 UT
 954 BT EN* MM* UT
 955 UT
 956 BT UT
 959 AS BT CE CM EM* EN* EO
 ET* HM IC MM* SW UT
 960 EM* IC JO PH TD
 962 JO PH
 969 JO PH TD
 970 PH
 971 LI PH
 972 LI PH
 973 LI
 974 LI
 976 LI PH
 977 LI
 979 LI PH

RATING
DESCRIPTIONS
(STEP 6)

AD AVIATION MACHINIST'S MATE E4-9
MAINTAIN AIRCRAFT ENGINES AND RELATED SYSTEMS INCLUDING, INDUC-
TION, COOLING, FUEL, OIL, COMPRESSION, COMBUSTION, TURBINE, GAS
TURBINE COMPRESSOR, EXHAUSE, AND PROPELLER SYSTEMS; CONDUCT
PERIODIC INSPECTIONS ON ENGINES; FIELD TEST AND ADJUST ENGINE
COMPONENTS INCLUDING FUEL CONTROLS, PUMPS, VALVES, AND REGULA-
TORS; REMOVE REPAIR, AND REPLACE COMPRESSOR AND TURBINE BLADES,
AND COMBUSTION CHAMBER LINERS, PRESERVE AND DEPRESERVE ENGINES,
ENGINE ACCESSORIES, AND COMPONENTS; SUPERVISE WORK.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
AIRCRAFT ENGINE MAINTENANCE AND REPAIR (12,15,15,15); AVIATION
MAINTENANCE TECHNOLOGY (3,6,6,6); PERSONNEL SUPERVISION
(0,2,3,3); MAINTENANCE MANAGEMENT (0,0,2,3); SHOP MANAGEMENT
(0,0,0,3)

AE * AVIATION ELECTRICIAN'S MATE E4-8
TEST, INSTALL, MAINTAIN AIRCRAFT INSTRUMENTS AND ELECTRICAL
EQUIPMENT, INCLUDING GENERATORS, MOTORS, LIGHTING SYSTEMS. READ
ELECTRICAL SYSTEM DIAGRAMS. MAINTAIN AIRCRAFT COMPASSES. PERFORM
ELECTRICAL TROUBLESHOOTING OPERATIONS. USE A VARIETY OF ELECTRI-
CAL MEASURING EQUIPMENT. PERFORM MICRO-MINI MODULE REPAIR. MAIN-
TAIN AUTOMATIC FLIGHT CONTROL SYSTEMS. MAINTAIN INERTIAL NAVIGA-
TION SYSTEMS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
BEGINNING ELECTRICITY/ELECTRONICS (3,3,3,3); AIRCRAFT ELECTRICAL
MAINTENANCE (12,12,12,12); INTRO TO AC/DC THEORY (0,2,3,3); PER-
SONNEL SUPERVISION (0,0,2,3); MAINTENANCE MANAGEMENT (0,0,2,3)
SHOP MANAGEMENT (0,0,0,3); OR ADVANCED STANDING IN APPRENTICE-
SHIP TRAINING FOR ANY ELECTRICAL TRADE.

AF AIRCRAFT MAINTENANCEMAN E9
MASTER CHIEF RESPONSIBLE FOR DUTIES PERFORMED BY THE FOLLOWING:
AD AVIATION MACHINIST'S MATE
AM AVIATION STRUCTURAL MECHANIC (SAFETY HYDRAULICS STRUCTURES)

AG AEROGRAPHER'S MATE E4-9
OBSERVE, COLLECT, RECORD, AND ANALYZE METEOROLOGICAL AND
OCEANOGRAPHIC DATA; MAKE VISUAL AND INSTRUMENTAL OBSERVATIONS;
OPERATE METEOROLOGICAL SATELLITE RECEIVERS AND INTERPRET AND
APPLY SATELLITE DATA; INTERPRET CODES AND ENTER DATA ON CHARTS;
OPERATE ANCILLARY COMPUTER EQUIPMENT; PERFORM PREVENTIVE MAIN-
TENANCE ON METEOROLOGICAL AND OCEANOGRAPHIC EQUIPMENT; PREPARE
WEATHER WARNINGS AND SEA CONDITION; PREPARE AND PRESENT BRIEFING
ON ENVIRONMENTAL CONDITIONS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
METEOROLOGY (2,3,3,3); METEOROLOGY LABORATORY (2,2,3,3);
ATMOSPHERIC ENVIRONMENT (0,3,3,3); OCEANOGRAPHY (0,1,1,2);
CLIMATOLOGY (0,0,2,3); PERSONNEL SUPERVISION (0,0,0,1)

AK * AVIATION STOREKEEPER E4-9
RECEIVE, IDENTIFY, STORE AND ISSUE AVIATION SUPPLIES, SPARE
PARTS, AND STOCKS OF TECHNICAL AVIATION ITEMS; CONFIRM SHIP-
MENTS AND REPORT EXCESSES, SHORTAGES, OR DAMAGES; CLASSIFY
AND STOW MATERIALS; PACK, TAG, AND INSPECT EQUIPMENT AND
PARTS; CONDUCT INVENTORIES; PREPARE AND MAINTAIN RECORDS OF
STOCK CONTROL AND ISSUANCE OF EQUIPMENT; PROCESS ALLOWANCE
CHANGES, VALIDATE REQUIREMENTS AND MONITOR SUPPLY REQUESTS;
MAINTAIN CONTROL OF STATUS AND LOCATION OF COMPONENTS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
OFFICE MACHINES (2,2,2,2); OFFICE PROCEDURES (1,1,1,1); RECORD
KEEPING (0,2,3,3); OFFICE MANAGEMENT (0,0,0,2); PERSONNEL
SUPERVISION (0,0,0,1)

 AB AVIATION BOATSWAIN'S MATE E8-9
 SENIOR/MASTER CHIEF RESPONSIBLE FOR THE DUTIES PERFORMED BY:
 ABE AVIATION BOATSWAIN'S MATE E (LAUNCH/RECOVERY EQUIP) E4-7
 ABF AVIATION BOATSWAIN'S MATE F (FUELS) E4-7
 ABH AVIATION BOATSWAIN'S MATE H (AIRCRAFT HANDLING) E4-7

 ABE AVIATION BOATSWAIN'S MATE E (LAUNCH/RECOVERY EQUIP) E4-7
 OPERATE, MAINTAIN, AND PERFORM ORGANIZATIONAL MAINTENANCE
 ON HYDRAULIC AND STEAM CATAPULTS, BARRICADES, ARRESTING
 GEAR ENGINES, AND ASSOCIATED EQUIPMENT ASHORE AND AFLOAT;
 OPERATE CATAPULT LAUNCH AND RETRACT PANELS, CONSOLES,
 FIRING PANELS, WATER BRAKES, CHRONOGRAPHS, BLAST DEFLECTORS
 AND COOLING PANELS; RIG, INSPECT, AND PROOF-LOAD CABLES AND
 FITTINGS AND POUR WIRE ROPE SOCKETS; AND PERFORM AIRCRAFT
 HANDLING DUTIES.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 BASIC HYDRAULICS (3,3,3,3); SHOP MANAGEMENT (0,0,2,2); RECORD
 KEEPING (0,0,1,2); PERSONNEL SUPERVISION (0,0,2,3); FIELD
 EXPERIENCE MANAGEMENT (0,0,0,3)

ABF AVIATION BOATSWAIN'S MATE F (FUELS) E4-7
 OPERATE, MAINTAIN, AND PERFORM ORGANIZATIONAL MAINTENANCE ON
 AVIATION FUELING AND LUBRICATION OIL SYSTEMS SUCH AS
 THOSE INCLUDING AVIATION FUEL AND LUBRICATION OIL SERVICE
 STATIONS AND PUMPROOMS, PIPING, VALVES, PUMPS, TANKS, AND
 PORTABLE EQUIPMENT RELATED TO THE FUEL SYSTEM; OPERATE,
 MAINTAIN, AND REPAIR VALVES AND PIPING OF PURGING AND PRO-
 TECTIVE SYSTEMS WITHIN THE AIR DEPARTMENT SPACES ABOARD
 SHIP; FUEL QUALITY SURVEILLANCE.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 FIRE SCIENCE (3,3,3,3); AIRCRAFT SERVICING (1,2,3,3); SHOP
 MANAGEMENT (0,0,2,2); RECORD KEEPING (0,0,2,2); PERSONNEL
 SUPERVISION (0,0,2,3); FILED EXPERIENCE MANAGEMENT (0,0,0,3)

ABH AVIATION BOATSWAIN'S MATE H (AIRCRAFT HANDLING) E4-7
 DIRECT THE MOVEMENT AND SPOTTING OF AIRCRAFT ASHORE AND AFLOAT;
 OPERATE, MAINTAIN AND PERFORM ORGANIZATIONAL MAINTENANCE ON GROUND
 HANDLING EQUIPMENT USED FOR MOVING AND HOISTING OF AIRCRAFT
 ASHORE AND AFLOAT; SUPERVISE SECURING OF AIRCRAFT AND EQUIPMENT;
 PERFORM CRASH RESUE, FIREFIGHTING, CRASH REMOVAL, DAMAGE CONTROL
 AND RECOVERY OF AIRCRAFT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 FIRE SCIENCE (3,3,3,3); AIRCRAFT SERVICINT (2,2,3,3); SHOP
 MANAGEMENT (0,0,2,2); RECORD KEEPING (0,0,2,2); PERSONNEL
 SUPERVISION (0,0,2,2); FILED EXPERIENCE MANAGEMENT (0,0,0,3)

AC AIR TRAFFIC CONTROLLER E4-9
 PERFORM AIR TRAFFIC CONTROL DUTIES IN AIR CONTROL TOWERS, RADAR
 AIR TRAFFIC CONTROL FACILITIES, AND AIR OPERATIONS OFFICES
 ASHORE AND AFLOAT; OPERATE RADIOTELEPHONES, LIGHT SIGNALS AND
 SYSTEMS, AND DIRECT AIRCRAFT UNDER VFR AND IFR CONDITIONS;
 OPERATE SURVEILLANCE RADAR, PRECISION RADAR, AND IDENTIFICATION
 EQUIPMENT; OPERATE GROUND AND CARRIER-CONTROLLED APPROACH SYSTEM;
 ASSIST IN FLIGHT PLANS AND CLEARANCES; MAINTAIN FLIGHT PLANNING
 INFORMATION AND REFERENCE MATERIALS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 AIR TRAFFIC CONTROL (6,9,9,9); AIR TRAFFIC MANAGEMENT (6,6,6,6);
 FEDERAL AVIATION REGULATIONS (3,3,3,3); PERSONNEL SUPERVISION
 (0,0,1,2); RECORD KEEPING (0,0,1,2); AVIATION SAFETY MANAGEMENT
 (0,0,0,2)

AM	AVIATION STRUCTURAL MECHANIC	E8
SENIOR CHIEF RESPONSIBLE FOR THE DUTIES OF THE FOLLOWING:		
AME	AVIATION STRUCTURAL MECHANIC E (SAFETY EQUIPMENT)	E4-7
AMH	AVIATION STRUCTURAL MECHANIC H (HYDRAULICS)	E4-7
AMS	AVIATION STRUCTURAL MECHANIC S (STRUCTURES)	E4-7

AME AVIATION STRUCTURAL MECHANIC E (SAFETY EQUIPMENT) E4-7
 MAINTAIN SAFETY BELTS, SHOULDER HARNESSSES, AND INTEGRATED
 FLIGHT HARNESSSES IN AIRCRAFT, INERTIA REELS, SEAT AND CANOPY
 EJECTION SYSTEMS, GASEOUS AND LIQUID OXYGEN SYSTEMS, LIFERAFT
 EJECTION SYSTEMS, PORTABLE FIRE EXTINGUISHERS, EGRESS SYSTEMS,
 AIR-CONDITIONING, HEATING CABIN AND COCKPIT PRESSURIZATION,
 VENTILATING, AND ANTI-G SYSTEMS, AND ASSOCIATED LINES, FITTINGS,
 RIGGINGS AND CONTROLS. REPLENISH LIQUID AND GASEOUS OXYGEN;
 MAINTAIN LIQUID NITROGEN, AND PERIODIC AIRCRAFT INSPECTIONS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 AIRCRAFT SAFETY AND WARNING SYSTEMS (10,12,15,15); AVIATION
 MAINTENANCE TECHNOLOGY (3,4,6,6); PERSONNEL SUPERVISION
 (0,0,2,3); MAINTENANCE MANAGEMENT (0,0,2,3); SHOP MANAGEMENT
 (0,0,0,3);

AMH AVIATION STRUCTURAL MECHANIC H (HYDRAULICS) E4-7
 AVIATION STRUCTURAL MECHANIC H
 MAINTAIN HYDRAULIC SYSTEMS INCLUDING POWER SYSTEM AND UNIT
 ACTUATING SUBSYSTEMS, LANDING GEAR, RESEVOIR PRESSURIZATION AND
 ACTUATING SYSTEMS AND ASSOCIATED PUMPS, VALVES, REGULATORS,
 CYLINDERS, LINES AND FITTINGS; SERVICE PRESSURE ACCUMULATORS,
 AIR BOTTLES, SLED STRUTS, AND MASTER BRAKE CYLINDERS; INSPECT
 REMOVE AND REPLACE HYDRAULIC SYSTEMS; BLEED HYDRAULIC SYSTEMS;
 ADJUST BRAKES AND REPLACE LININGS AND PUCKS; REPLACE GASKETS,
 PACKING AND WIPERS; PERFORM INSPECTIONS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 HYDRAULICS SYSTEMS REPAIR (10,15,15,15); AVIATION MAINTENANCE
 TECHNOLOGY (3,6,6,6); PERSONNEL SUPERVISION (0,2,3,3); MAIN-
 TENANCE MANAGEMENT (0,0,3,3); SHOP MANAGEMENT (0,0,0,3); FIELD
 EXPERIENCE MANAGEMENT (0,0,0,3)

AMS AVIATION STRUCTURAL MECHANIC S (STRUCTURES) E4-7
 MAINTAIN AIRCRAFT FUSELAGES, WINGS, FIXED AND MOVABLE
 SURFACES, AIRFOILS, EMPENNAGES, SEATS, WHEELS, TIRES AND
 COMPONENTS, CONTROLS. REMOVE, INSTALL, AND RIG FLIGHT
 CONTROL SURFACES; FABRICATE AND ASSEMBLE METAL PARTS AND
 MAKE MINOR REPAIRS TO AIRCRAFT SKIN; INSTALL RIVETS ; BUILD
 UP WHEELS AND TIRES; PAINT; PERFORM DYE PENETRANT INSPECTIONS
 AND DAILY PREFLIGHT, POSTFLIGHT, AND OTHER INSPECTIONS

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 AIRFRAME STRUCTURES REPAIR (8,12,15,15); AVIATION MAINTENANCE
 TECHNOLOGY (2,4,6,6); PERSONNEL SUPERVISION (0,2,3,3);
 MAINTENANCE MANAGEMENT (0,0,2,3); SHOP MAINTENANCE (0,0,0,3);
 FIELD EXPERIENCE MANAGEMENT (0,0,0,3)

AO AVIATION ORDNANCEMAN E4-9
 INSPECT, MAINTAIN, AND REPAIR AIRCRAFT ARMAMENT AND AVIATION
 ORDNANCE EQUIPMENT INCLUDING GUNS AND ACCESSORIES, SMALL ARMS,
 AMMUNITION, HANDLING EQUIPMENT; STORE, ASSEMBLE, LOAD, AND MAIN-
 TAIN AIR-LAUNCHED GUIDED MISSILES; LOAD NUCLEAR WEAPONS, MINES,
 AND TORPEDOES; OPERATE SMALL ARMS RANGES; SUPERVISE OPERATION OF
 AVIATION ORDNANCE SHOPS, ARMORIES, AMMUNITION STORAGE FACILITIES.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 APPLIED SCIENCE (3,3,3,3); APPLIED MATH (3,3,3,3); MECHANICAL
 MAINT. (3,3,3,3); BLUE PRINT READING/SCHEMATICS (2,3,3,3); BASIC
 ELECTRONICS (0,3,3,3); RECORD KEEPING (0,3,3,3); APPLIED PHYSICS
 (0,3,3,3); INDUSTRIAL SAFETY (0,2,3,3); INSTRUCTIONAL TECHNIQUES
 AND MATERIALS (0,0,3,3); AVIATION MANAGEMENT (0,0,0,2); OFFICE
 MANAGEMENT (0,0,0,2); PERSONNEL SUPERVISION (0,0,0,1); FIELD
 EXPERIENCE MANAGEMENT (0,0,0,1)

AQ AVIATION FIRE CONTROL TECHNICIAN E4-8
INSPECT AND PERFORM ORGANIZATIONAL AND INTERMEDIATE
MAINTENANCE ON AIRCRAFT WEAPONS SYSTEMS, INCLUDING WEAPONS
CONTROL RADAR, COMPUTERS, DOPPLER COMPUTING SIGHTS,
GYROSCOPES, ACCESSORIES AND RELATED EQUIPMENT, AND AIR
LAUNCHED GUIDED MISSILE EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
BASIC ELECTRICITY/ELECTRONICS LAB (3,3,3,3); APPLIED PHYSICS
(2,2,2,2); INTRO TO AC/DC THEORY (0,3,3,3); AIRCRAFT ELECTRONICS
AND HYDRAULICS (1,1,1,1); PERSONNEL SUPERVISION (0,0,2,3);
MAINTENANCE MGT (0,0,2,3); SHOP MGT (0,0,0,3) - INDUSTRIAL
ELECTRONICS TECHNICIAN APPRENTICE TRAINING PROGRAM (TATP)
(ENTRY, ADV STANDING, 4000 CLOCK HRS EXPERIENCE/288 HRS RELATED
INSTRUCTION, 4000/288); COMMUNICATIONS ELECTRONICS OR INDUSTRIAL
INSTRUMENTATION TATP (ENTRY, ADV STAND, 2000/144, 2000/144)

AS AVIATION SUPPORT EQUIPMENT TECHNICIAN E6-9
SERVICE, TEST, PERFORM MAINTENANCE AND REPAIRS ON AUTOMOTIVE,
ELECTRICAL, GENERATING, STARTING, LIGHTING AND IGNITION SYSTEMS.
MAINTAIN GASOLINE/DIESEL FUEL SYSTEMS AND OPERATING EFFICIENCY
OF HYDRAULIC AND PNEUMATIC SYSTEMS, PERFORM BODY AND CHASSIS RE-
PAIRS USING WELDING EQUIPMENT/SHEET METAL WORKING TECHNIQUES AND
MAINTAIN AIR CONDITIONING EQUIPMENT, WORK ON ELECTRONIC CIRCUITS
AND COMPONENTS IN GENERAL SERVICING EQUIPMENT, REPAIR MECHANICAL
ELEMENTS OF ENGINE AND TRANSMISSION SYSTEMS

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

ALSO RESPONSIBLE FOR THE DUTIES PERFORMED BY THE FOLLOWING:
ASE AVIATION SUPPORT EQUIPMENT TECHNICIAN E (ELECTRICAL) E4-5
ASM AVIATION SUPPORT EQUIPMENT TECHNICIAN M (MECHANICAL) E4-5

ASE AVIATION SUPPORT EQUIPMENT TECHNICIAN E (ELECTRI E4-5
SERVICE, TEST AND PERFORM ORGANIZATIONAL AND INTERMEDIATE
LEVEL MAINTENANCE AND REPAIR OF AUTOMOTIVE ELECTRICAL
SYSTEMS IN MOBILE AND SELF-PROPELLED AVIATION EQUIPMENT,
ARMAMENT HANDLING, INCLUDING GENERATING, STARTING, LIGHT-
ING, AND IGNITION SYSTEMS, ELECTRICAL COMPONENTS AND
WIRING IN AUXILIARY ELECTRICAL POWER UNITS; SERVICE AND
MAINTAIN STORAGE BATTERIES; AND PERFORM PERIODIC MAINTAINCE
INSPECTIONS OF AVIATION SUPPORT EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5):
AUTOMOTIVE ELECTRICITY (4,4); BASIC SHOP PRACTICES (4,4);
BASIC ELECTRICITY (3,3); POWER GENERATOR SYSTEMS (3,3);
ELECTRICAL CONTROL SYSTEMS (3,3); CARE/USE OF TOOLS (2,2)

JOED JOURNALIST - EDUCATIONAL CORRESPONDANCE E4-9
EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
NEWS EDITING (3,3,3,3); NEWS REPORTING (3,3,3,3); WRITING FOR
MASS MEDIA (3,3,3,3); AUDIO-VISUAL TECHNOLOGY (3,3,3,3);
ANNOUNCING (3,3,3,3); STUDIO TECHNIQUES (3,3,3,3); PHOTOGRAPHY
(3,6,6,6); LAYOUT (3,3,3,3); TECHNICAL WRITING (0,3,3,3);
INTERVIEWING TECHNIQUES (0,3,3,3); FIELD EXPERIENCE PUBLIC
BROADCAST JOURNALISM (0,0,0,3)

ASM AVIATION SUPPORT EQUIPMENT TECHNICIAN M (MECHANICAL) E4-5
SERVICE, TEST, AND PERFORM ORGANIZATIONAL AND INTERMEDIATE
LEVEL MAINTENANCE AND REPAIR OF GASOLINE AND DIESEL ENGINES
IN MOBILE AND SELF-PROPELLED AVIATION SUPPORT EQUIPMENT AND
ASSOCIATED AUTOMOTIVE SYSTEMS, INCLUDING FUEL SYSTEMS, AUTO-
MATIC AND POWER TRANSMISSIONS, DIFFERENTIALS, AND STEERING
SYSTEMS; MAINTAIN GAS TURBINE COMPRESSOR UNITS AND AIR-
CONDITIONING SYSTEMS USED IN AIRCRAFT; MAINTAIN AND OPERATE
GAS TURBINE COMPRESSOR UNIT TEST STANDS; PERFORM PERIODIC
MAINTENANCE INSPECTIONS OF AVIATION SUPPORT EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5):
BASIC SHOP PRACTICES (4,4); DIESEL ENGINES (3,6); HYDRAULIC
BRAKES (3,3); CARE/USE OF TOOLS (2,2); GAS WELDING (0,3);
POWER TRANSMISSIONS (0,3)

 AT * AVIATION ELECTRONICS TECHNICIAN E4-8
 INSPECT AND PERFORM ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE
 ON AVIATION ELECTRONICS EQUIPMENT INCLUDING: DETECTION, RECON-
 NAISSANCE, IDENTIFICATION, COMMUNICATION, NAVIGATION, DISPLAY,
 DIGITAL DATA SYSTEMS AND SPECIAL PURPOSE EQUIPMENT. TROUBLESHOOT
 ELECTRONIC CIRCUITS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 BEGINNING ELECTRICITY/ELECTRONICS (3,3,3,3); AVIONICS TECHNO-
 LOGY (12,12,12,12); APPLIED PHYSICS (1,1,1,1); INTRODUCTION TO
 AC/DC THEORY (0,0,3,3); PERSONNEL SUPERVISION (0,0,2,3); MAIN-
 TENANCE MANAGEMENT (0,0,2,3); SHOP MANAGEMENT (0,0,0,3) -
 COMMUNICATIONS ELECTRONICS TECHNICIAN APPRENTICE TRAINING
 PROGRAM (TATP) (ENTRY, ADVANCED STANDING, 4000 CLOCK HRS
 EXPERIENCE/288 HRS RELATED INSTRUCTION, 4000/288); INDUSTRIAL
 ELECTRONICS TATP (ENTRY, ADV STAND, 2000/144, 2000/144)

AV AVIONICS TECHNICIAN E9
 MASTER CHIEF RESPONSIBLE FOR DUTIES PERFORMED BY THE FOLLOWING:
 AE *AVIATION ELECTRICIAN'S MATE
 AQ AVIATION FIRE CONTROL TECHNICIAN
 AT *AVIATION ELECTRONICS TECHNICIAN
 AX AVIATION ANTISUBMARINE WARFARE TECHNICIAN

 AW AVIATION ANTI-SUBMARINE WARFARE OPERATOR E4-9
 PERFORM GENERAL FLIGHT CREW DUTIES; OPERATE ASW SENSOR
 SYSTEMS TO EXTRACT, ANALYZE AND CLASSIFY DATA OBTAINED;
 PERFORM SPECIFIED PREFLIGHT, INFLIGHT, AND POSTFLIGHT
 DIAGNOSTIC FUNCTIONS USING MANUAL TECHNIQUES, BUILT-IN TEST
 EQUIPMENT (BITE), AND COMPUTER ROUTINES TO EFFECT FAULT
 ISOLATION AND OPTIMIZE SYSTEM PERFORMANCE; OPERATE TACTICAL
 SUPPORT SYSTEM TO ANALYZE AND CLASSIFY ASW DATA; ASSIST IN
 AIRCREW BRIEFING AND DE-BRIEFING; PROVIDE DATA BASE INFORMAT-
 ION TO THE TACTICAL COMMANDER FOR USE IN PRESCRIBING MISSION
 OBJECTIVES AND TACTICS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 EMERGENCY MEDICAL TECHNIQUES (3,4,5,5); SURVEY OF METEOROLOGY
 (2,2,2,2); SURVEY OF OCEANOGRAPHY (4,4,5,5); TEACHING PRACTICUM
 (0,3,3,3); PERSONNEL SUP. (0,0,3,3); HUMAN RELATIONS (0,0,0,3)

AX AVIATION ANTI-SUBMARINE WARFARE TECHNICIAN E4-8
 INSPECT AND PERFORM INTERMEDIATE AND ORGANIZATIONAL MAIN-
 TENANCE AND IN-FLIGHT REPAIR ON AVIATION ANTISUBMARINE
 WARFARE SENSOR EQUIPMENT AND ASSOCIATED INTEGRATED SYSTEMS,
 INCLUDING THOSE RELATED TO MAGNETIC ANOMALY DETECTION, UNDER-
 WATER DETECTION, ACOUSTIC ANALYSIS, ELECTRONIC SUPPORT
 MEASURES, COMPUTER/DATA PROCESSING, ELECTRO-OPTICS, DATA
 DISPLAY, DATA LINK, AND ELECTRO-MECHANICAL RECORDERS; OPERATE
 AND MAINTAIN ASSOCIATED TEST EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 BASIC ELECTRONICS (3,3,3,3); TROUBLESHOOTING TECHNI(2,3,4,4); IN
 THEORY (0,2,3,3); PERSONNEL SUPERVISION (0,0,3,3); PRACTICUM
 IN TEACHING (0,0,3,3); HUMAN RELATIONS (0,0,0,3)

AZ AVIATION MAINTENANCE ADMINISTRATIONMAN E4-9
 SCHEDULE AIRCRAFT INSPECTIONS. KEEP CHARTS ON TRENDS IN AIRCRAFT
 SYSTEMS RELIABILITY. ORGANIZE AND OPERATE LIBRARIES OF TECHNICAL
 REPORTS AND RELATED MAINTENANCE DATA. ISSUE AIRCRAFT WORK ORDERS
 AND INSPECTION FORMS. PERFORM CLERICAL AND ADMINISTRATIVE DUTIES
 RELATED TO AIRCRAFT MAINTENANCE SUCH AS PREPARING REPORTS AND
 CORRESPONDENCE, FILING AND TYPING.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 OFFICE MACHINES (2,2,2,2); CLERICAL OFFICE PROCEDURES (2,3,3,3);
 FILING (2,2,2,2); RECORD KEEPING (0,3,3,3); OFFICE MANAGEMENT
 (0,0,3,3); TYPEWRITING (1,1,1,1); BUSINESS COMMUNICATION
 (0,0,0,2)

BM BOATSWAIN'S MATE E4-9

TRAIN, DIRECT, AND SUPERVISE PERSONNEL IN MILITARY DUTIES IN ALL ACTIVITIES RELATING TO MARLIN SPIKE, DECK AND BOAT SEAMANSHIP AND UPKEEP OF SHIP'S EXTERNAL STRUCTURE, RIGGING, DECK EQUIPMENT, AND BOATS; TAKE CHARGE OF WORKING PARTIES AND YARD CRAFTS; SERVE AS MASTER-AT-ARMS, IN GUNCREWS OR DAMAGE CONTROL PARTIES, OPERATE/MAINTAIN LOADING/UNLOADING EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7): SEAMANSHIP (3,4,5,5); RIGGING (3,4,4,4); SMALL CRANE SIGNALLING (1,1,1,1); SMALL BOAT HANDLING (1,1,1,1); SMALL BOAT MAINTENANCE (0,2,2,2); POLICE SCIENCE (0,2,2,2); RECORD KEEPING (0,2,2,3); PERSONNEL SUPERVISION (0,2,3,3); COASTLINE NAVIGATION (0,0,0,3); FIELD EXPERIENCE MGT (0,0,0,3); MGT ELECTIVES (0,0,0,3); PRACTICUM IN MANAGEMENT (0,0,0,3); HUMAN RELATIONS (0,0,0,1)

BT BOILER TECHNICIAN E4-9

ALIGN FUEL, WATER, AND AIR PIPING SYSTEMS, OPERATE PUMPS, STEAM TURBINES, MAIN PROPULSION AND AUXILIARY BOILERS AND AUTOMATIC BOILER CONTROL SYSTEMS, CLEAN, ADJUST, TEST, AND PERFORM OTHER PREVENTIVE MAINTENANCE ON BOILERS AND AUXILIARY MACHINERY, PERFORM CHEMICAL AND QUALITY ASSURANCE TESTS ON WATER AND OIL, REPAIR VALVES, PUMPS, FORCED DRAFT BLOWERS, CONTROL DEVICES, AND BOILERS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7): MECHANICAL ENGINE MAINTENANCE (6,10,10,10); BLUEPRINT READING (1,1,1,1); MAINTENANCE TECHNOLOGY (3,6,6,6); BASIC MARINE STEAM ENGINEERING (3,4,4,4); RECORD KEEPING (0,1,1,2); PERSONNEL SUPERVISION (0,0,2,3); MAINTENANCE MANAGEMENT (0,0,2,3); HUMAN RELATIONS (0,0,3,3)

BU BUILDER E4-8

BUILD AND REPAIR WOOD/MASONRY AND CONCRETE STRUCTURES, CONSTRUCT UNDERPINNING/SHORING/PILE JETTING AND CAPPING, OPERATE CARPENTRY AND CABINET-MAKING SHOPS, BUILD FORMS FOR CONCRETE CONSTRUCTIONS, MIX AND PLACE CONCRETE, OPERATE CONCRETE BATCHING PLANTS/PORTABLE CONCRETE MIXERS AND VIBRATORS, BUILD WHARVES, INTERPRET BLUEPRINTS AND PREPARE SKETCHES FOR CONSTRUCTION WORK, MAKE ESTIMATES OF MATERIALS AND LABOR REQUIRED.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7): INTRO TO CONST (3,3,3,3); CONST TECHNIQUES (3,6,9,9); EQUIP OP/MAINT (2,2,2,2); CONST MATERIALS (1,1,3,3); BLUEPRINT READING (0,2,2,2); GENERAL PLANS/SPECS (0,2,2,3); ESTIMATING/SCHEDULING (0,0,3,3); TECH MATH (0,0,3,3); FUNDAMENTALS OF SUP. (0,0,2,3); CONST ESTIMATING (0,0,1,1); CONST MGT (0,0,1,2); FIELD EXPERIENCE CONST MGT (0,0,0,3); RECORDS/COST CONTROL (0,0,0,2)

CE CONSTRUCTION ELECTRICIAN E4-8

PLAN, SUPERVISE, AND PERFORM TASKS REQUIRED TO INSTALL, OPERATE, SERVICE, AND OVERHAUL ELECTRIC GENERATING AND DISTRIBUTION SYSTEMS, WIRE, AND CABLE COMMUNICATIONS SYSTEMS; ATTACH AND SERVICE UNITS SUCH AS TRANSFORMERS, SWITCHBOARDS, MOTORS, CONTROLLERS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7): BASIC ELECTRICITY (3,3,3,3); INTRO TO CONST (3,3,3,3); INTERMEDIATE ELECTRICITY (0,3,3,3); BLUEPRINT READING (0,2,2,2); ELECTRICAL CONST LAB (0,1,2,2); ADVANCED ELECTRICITY (0,0,3,3); ELECTRICAL TROUBLESHOOTING (0,0,2,2); RECORDS ADMINISTRATION (0,0,1,1); PERSONNEL SUPERVISION (0,0,1,2); SHOP MANAGEMENT (0,0,0,2); SAFETY MANAGEMENT (0,0,0,1); HUMAN RELATIONS (0,0,0,3) - ADVANCED STANDING IN CONSTRUCTION ELECTRICIAN APPRENTICE TRAINING PROGRAM.

CM CONSTRUCTION MECHANIC E4-8

ADJUST, REPAIR, AND MAINTAIN DIESEL AND GASOLINE ENGINES, IGNITION, FUEL, ELECTRICAL, HYDRAULIC, AND STEERING SYSTEMS; PERFORM MAJOR OVERHAULS ON ENGINES AND TRANSMISSIONS, MAINTAIN AND REPAIR CHASSIS, FRAMES, AND BODIES; WORK WITH HOISTING AND JACKING EQUIPMENT, POWER TOOLS, MEASURING INSTRUMENTS, LUBRICATION EQUIPMENT; MAINTAIN AND REPAIR TIRES, BATTERIES, BRAKES, AND VALVES; PERFORM SHOP MANAGEMENT FUNCTIONS SUCH AS MAINTENANCE SCHEDULING AND SPARE PARTS INVENTORY CONTROL.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7): DIESEL/TRUCK/AUTO/MECH (9,15,18,18); TOOL USE/CARE (1,1,1,1); SHOP PRACTICES (0,3,3,3); PERSONNEL SUP. (0,0,2,3); RECORDS ADMIN (0,0,1,2) - AUTO/DIESEL/TRUCK MECHANICS APPRENTICE TRAINING PROGRAM; CONTACT HOURS (144, 288, 432, 576); CLOCK HOURS (1500, 3000, 6000, 8000)

CTA CRYPTOLOGIC TECHNICIAN A (ADMINISTRATION) E4-9
PERFORM DUTIES AS NAVY LINGUISTS, SPECIALIZING IN RADIO-
TYPE MESSAGES AND CORRESPONDENCE, FILE, HANDLE CLASSIFIED MA-
TERIAL, KEEP MAIL LOGS, PREPARE CORRESPONDENCE, ORDER SUPPLIES,
TAKE INVENTORY.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

CTI CRYPTOLOGIC TECHNICIAN I (INTERPRETIVE) E4-9
PERFORM DUTIES AS NAVY LINGUISTS, SPECIALIZING IN RADIO-
TELEPHONE COMMUNICATIONS, ANALYSIS OF DATA, AND IN THE
PREPARATION OF STATISTICAL STUDIES AND TECHNICAL REPORTS
REQUIRING KNOWLEDGE OF A FOREIGN LANGUAGE.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

CTM CRYPTOLOGIC TECHNICIAN M (MAINTENANCE) E4-9
INSTALL, MAINTAIN, CALIBRATE, REPAIR AND ADJUST STANDARD AND
SPECIALIZED ELECTRONIC AND ELECTROMECHANICAL EQUIPMENT USED IN
NAVY SECURITY GROUP. WORK WITH ELECTRON TUBE CIRCUITS, SOLID
STATE CIRCUITS, RADIO RECEIVING AND TRANSMITTING EQUIPMENT,
ELECTRONIC EQUIPMENT, SPECIAL PURPOSE TEST EQUIPMENT, AND MAY
BE CONSIDERED FOR ADVANCED TRAINING IN SPECIALIZED ELECTRONIC
FIELDS.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

CTO CRYPTOLOGIC TECHNICIAN O (COMMUNICATIONS) E4-9
PREPARE MESSAGES UTILIZING TELETYPEWRITER EQUIPMENT, TRANSMIT,
RECEIVE, ROUTE AND LOG MESSAGE TRAFFIC, STRICTLY OBSERVE ALL
APPLICABLE SECURITY MEASURES, MAINTAIN MESSAGE CENTER FILES,
OPERATING LOGS, RECORDS AND UPDATE COMMUNICATIONS PUBLICATIONS,
CONTROL AND OPERATE COMMUNICATIONS EQUIPMENT SYSTEMS INCLUDING
RADIO RECEIVERS, TONE-TERMINAL EQUIPMENT, DC AND AUDIO PATCH
BOARDS, COMMUNICATIONS SECURITY DEVICES, MONITOR SIGNAL QUALITY
THROUGH THE USE OF TEST EQUIPMENT SUCH AS MONITOR TELETYPEWRIT-
ERS, TRANSMISSION DISTORTION TEST SETS, OSCILLOSCOPES, AUDIO LEV
AND NOISE LEVEL METERS, AND SPECTRUM ANALYZERS.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

CTR CRYPTOLOGIC TECHNICIAN R (COLLECTION) E4-9
PERFORM DUTIES IN MORSE CODE COMMUNICATIONS, THE OPERATIONS
OF RADIO DIRECTION-FINDING EQUIPMENT, ANCILLARY COMPUTERS,
AND COMMUNICATIONS SECURITY PROCEDURES.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

CTT CRYPTOLOGIC TECHNICIAN T (TECHNICAL) E4-9
PERFORM DUTIES IN COMMUNICATIONS BY OTHER THAN THE USUAL
MEANS, AND ELECTRONIC SUPPORT MEASURES INVOLVING ELECTRONIC
EQUIPMENT.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

CU CONSTRUCTIONMAN E9
MASTER CHIEF RESPONSIBLE FOR DUTIES PERFORMED BY THE FOLLOWING:
BU BUILDER
EA ENGINEERING AID
SW STEELWORKER

DK DISBURSING CLERK E4-9
COMPUTE PAY AND PREPARE PAYROLLS, KEEP PAY RECORDS UP TO DATE
WITH RESPECT TO INSURANCE ALLOTMENTS/FAMILY ALLOWANCES/PRO-
MOTIONS AND EXTRA COMPENSATIONS, PROCESS CLAIMS FOR EXPENSES,
DISBURSE FUNDS FOR SUPPLIES AND SERVICES, PREPARE FINANCIAL
ACCOUNTS AND REPORTS, PREPARE CORRESPONDENCE, MAINTAIN DISBUR-
SING OFFICE FILES, KEEP OFFICIAL PUBLICATIONS UP TO DATE, TYPE
DOCUMENTS RELATED TO PAY TRANSACTIONS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS E4, E5, E6, E7):
TYPING (1,1,1,1); OFFICE PROCEDURES (1,1,1,1); BUSINESS MATHE-
MATICS (1,1,1,1); OFFICE MACHINES (0,1,1,1); OFFICE MANAGE-
MENT (0,1,2,3); RECORD KEEPING (0,1,1,1); PERSONNEL SUPER-
VISION (0,0,1,3); HUMAN RELATIONS (0,0,1,2); PRACTICUM IN
MANAGEMENT (0,0,0,1)

DM ILLUSTRATOR DRAFTSMAN E4-9
PREPARE TECHNICAL DRAWINGS AND AUDIO-VISUAL MATERIALS SUCH AS
CHARTS, GRAPHS, SLIDES, + TELEVISION PROJECTURALS, USE A VARIETY
OF ART MEDIA INCLUDING PENCIL, PEN, BRUSH, INKS, WATERCOLOR AND
TEMPERAS, UTILIZE FREEHAND, MECHANICAL AND PHOTOMECHANICAL LET-
TERING, PREPARE ART FOR REPRODUCTION, OPERATE AUDIO-VISUAL PRO-
JECTION EQUIPMENT, OPERATE GRAPHIC ARTS REPRODUCTION EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
BASIC DRAWING (3,3,3,3); VISUAL DESIGN (3,3,3,3); TECHNICAL
DRAFTING (3,3,3,3); BASIC COMMERCIAL ART TECHNIQUES (3,3,3,3);
TECHNICAL ILLUSTRATING (0,3,3,3); BASIC PHOTOGRAPHY (0,3,3,3);
FIELD EXPERIENCE GRAPHICS (0,3,3,3); SILK-SCREEN PRINT NG
(0,0,3,3); ADVERTISING ILLUSTRATION/AIRBRUSH (0,0,3,3); AUDIO-
VISUAL GRAPHICS (0,0,3,3); GRAPHICS ARTS MGT (0,0,1,3);
INDUSTRIAL ARTS EDUCATION (0,0,2,3); PERSONNEL SUP. (0,0,0,2)

DP DATA PROCESSING TECHNICIAN E4-9
OPERATE DATA PROCESSING EQUIPMENT E.G., SORTERS, COLLATORS, RE-
PRODUCERS, INTERPRETERS, ACCOUNTING MACHINES AND ELECTRONIC DATA
PROCESSING SYSTEMS, WRITE PROGRAMS FOR CONTROLLING ELECTRONIC
DATA PROCESSING OPERATIONS, ESTABLISH AND MAINTAIN CONTROLS ON
DATA PROCESSING MACHINE OPERATIONS, DETERMINE CAUSE OF OPERA-
TIONAL FAILURE OF DATA PROCESSING MACHINES, DESIGN CARD LAYOUTS
AND REPORT FORMS, PREPARE PROCEDURE MANUALS, PERFORM OFFICE MAN-
AGEMENT FUNCTIONS, PERFORM SYSTEMS ANALYST FUNCTIONS.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

DS DATA SYSTEMS TECHNICIAN E4-9
PERFORM ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE ON
ELECTRONIC DIGITAL DATA SYSTEMS AND EQUIPMENT; INSPECT, TEST
CALIBRATE, AND REPAIR COMPUTERS, EXTERNAL STORAGE DEVICES,
DIGITAL INTERFACE EQUIPMENT, DIGITAL DISPLAY EQUIPMENT, DATA
LINK TO TERMINAL EQUIPMENT, PERIPHERAL EQUIPMENT, AND RELATED
EQUIPMENT; PERFORM PREVENTIVE MAINTENANCE ON TEST EQUIPMENT;
AND PREPARE AND USE PROGRAMMED TEST ROUTINES.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

DT DENTAL TECHNICIAN E4-9
ASSIST DENTAL OFFICERS IN TREATING PATIENTS, PREPARE CEMENTS AND
FILLING MATERIALS FOR DENTAL OFFICERS, TAKE/DEVELOP AND PROCESS
X-RAYS, ASSIST IN ORAL SURGERY, INSTRUCT PATIENTS IN ORAL HY-
GIENE, ADMINISTER FIRST AID AND PREVENTIVE TREATMENTS, PREPARE
CASTS FROM ORAL IMPRESSIONS, PERFORM CROWN AND BRIDGE CONSTRU-
TION, INSTALL/MAINTAIN AND REPAIR DENTAL EQUIPMENT, SET UP AP-
POINTMENT SCHEDULES/KEEP DENTAL RECORDS AND MAINTAIN DENTAL
STOREROOM.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

EA ENGINEERING AID E4-8
PLAN, SUPERVISE, AND PERFORM TASKS REQUIRED IN CONSTRUCTION
SURVEYING/DRAFTING SUCH AS RUNNING/CLOSING TRAVERSES, STAKING
OUT FOR EXCAVATIONS, OBTAINING AND CONVERTING FIELD NOTES INTO
TOPOGRAPHIC MAPS; QUALITY CONTROL FOR TESTING SOILS, CONCRETE,
AND CONSTRUCTION MATERIALS; PLANNING, ESTIMATING, AND REPRO-
DUCING CONSTRUCTION DRAWINGS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
INTRO TO CONST (3,3,3,3); DRAFTING (2,4,4,4); SURVEYING
(2,3,3,3); MATERIALS TESTING (2,4,6,6); CONST METHODS (0,3,3,3);
TECH MATH (0,0,3,3); ALGEBRA (3,3,3,3); CONST TECH (0,1,1,3);
EARTHWORK COMPUTATION (0,0,3,3); PAVEMENT DESIGN (0,0,3,3);
PERSONNEL SUPERVISION (0,0,2,3); FIELD EXPERIENCE/CONSTRUCTION
MANAGEMENT (0,0,0,3)

EM * ELECTRICIAN'S MATE E4-9
INSTALL, OPERATE, AND PERFORM ORGANIZATIONAL AND INTERMEDIATE
MAINTENANCE ON POWER AND LIGHTING CIRCUITS, ELECTRICAL FIXTURES,
FILM PROJECTORS, MOTORS, GENERATORS, VOLTAGE REGULATORS, CON-
TROLLERS, SWITCHBOARDS, APPLIANCES, AND OTHER ELECTRICAL EQUIP-
MENT; TROUBLESHOOT CIRCUITS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
BASIC EL'CTICITY/EL'NICS (5,5,5,5); ELECTICIAL WIRING (3,3,3,3);
ELECTRICAL MOTORS (3,5,7,7); ELECTICAL CIRCUITS (0,2,4,4);
TROUBLESHOOTING (1,1,1,1); RECORD KEEPING (0,0,1,1); HUMAN RE-
LATIONS (0,1,3,3); PERSONNEL SUPERVISION (0,0,2,3); MAINTENANCE
MANAGEMENT (0,0,2,3) REPORT WRITING (0,0,0,1)

EN * ENGINEERMAN E4-9
OPERATE, REPAIR, AND PERFORM ORGANIZATIONAL AND INTERMEDIATE
MAINTENANCE ON INTERNAL-COMBUSTION ENGINES, MAIN PROPULSION
MACHINERY, REGRIGERATION, AIR-CONDITIONING, GAS-TURBINE ENGINES,
REDUCTION GEARS, AIR COMPRESSORS, HYDRAULIC/PNEUMATIC CLUTCHES,
ELECTROHYDRAULIC CONTROLLABLE PITCH PROPELLER SYSTEMS, STEERING
ENGINES, DESALINIZATION PLANTS, AND BOILERS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
ENGINE MAINTENANCE AND REPAIR (10, 12, 15, 15); MAINTENANCE
TECHNOLOGY (3, 3, 6, 6); BLUEPRINT READING (1, 1, 1, 1); RECORD
KEEPING (0, 1, 2, 2); MAINTENANCE MANAGEMENT (0, 0, 2, 3);
PERSONNEL SUPERVISION (0, 0, 2, 3); HUMAN RELATIONS (0, 0, 3, 3)

 EO EQUIPMENT OPERATOR E4-8
 OPERATE A WIDE VARIETY OF HEAVY-DUTY EQUIPMENT FOR SUCH PROJECTS AS STRUCTURE ERECTION, REPAIR, SALVAGE, GRADING AND EXCAVATION, PERFORM MAINTENANCE ON THIS EQUIPMENT TO INSURE SAFE EFFICIENT OPERATION, RIG CABLE ASSEMBLIES AND CHANGE ATTACHMENTS FOR VARIOUS LIFTING AND PILE-DRIVING OPERATIONS, PREPARE OPERATIONAL REPORTS ON EQUIPMENT, DISPATCH AND ASSIGN AUTOMOTIVE AND CONSTRUCTION EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 CONSTRUCTION EQUIPMENT OPERATION (10,20,30,30); INTRODUCTION TO CONSTRUCTION EQUIPMENT (3,3,3,3); MECHANICAL MAINTENANCE (2,3,3,3); OPERATIONS MANAGEMENT (0,0,2,3); PERSONNEL SUPERVISION (0,0,2,3)

 EQ EQUIPMENTMAN E9
 MASTER CHIEF RESPONSIBLE FOR DUTIES PERFORMED BY THE FOLLOWING:
 CM CONSTRUCTION MECHANIC
 EO EQUIPMENT OPERATOR

 ET * ELECTRONICS TECHNICIAN E4-9
 PERFORM MAINTENANCE ON ELECTRONIC EQUIPMENT USED FOR COMMUNICATION, DETECTION, TRACKING, RECOGNITION AND IDENTIFICATION, AND AIDS TO NAVIGATION. INSPECT AND MAINTAIN RADIO FREQUENCY TRANSMISSION SYSTEMS. TROUBLESHOOT ELECTRONICS EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 APPLIED MATHEMATICS (2,2,2,2); SYSTEMS MAINTENANCE (6,8,10,10); CIRCUIT THEORY (5,6,6,6); BASIC ELECTRONICS (3,3,3,3); DIGITAL ELECTRONICS (1,2,2,2); CIRCUIT ANALYSIS (0,0,6,6); MAINTENANCE MANAGEMENT (0,0,2,3); PERSONNEL MANAGEMENT (0,0,2,2); HUMAN RELATIONS (0,0,3,3); PERSONNEL SUPERVISION (0,0,0,1); RECORD KEEPING (0,0,0,1); REPORT WRITING (0;0;0;1)

 EW ELECTRONICS WARFARE TECHNICIAN E4-9
 OPERATE AND PERFORM ORGANIZATIONAL AND INTERMEDIATE LEVEL MAINTENANCE ON ELECTRONIC DETECTION AND DECEPTION SYSTEMS, ELECTRONIC WARFARE EQUIPMENT. EVALUATE INTERCEPTED ELECTROMAGNETIC RADIATIONS TO DETERMINE WHETHER THEY ORIGINATE FROM SURFACE, AIRBORNE, MISSILE OR NATURAL ATMOSPHERIC SOURCES. PLOT INTERCEPTED SIGNALS AND TRACK SURFACE AND AIRBORNE TARGETS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 SYSTEMS MAINTENANCE (6,8,10,10); BASIC ELECTRONICS (3,3,3,3); CIRCUIT THEORY (5,6,6,6); APPLIED MATHEMATICS (2,2,2,2); TROUBLESHOOTING TECHNIQUES (1,1,1,1); DIGITAL ELECTRONICS (1,2,2,2); HUMAN RELATIONS (0,0,3,3); PERSONNEL SUPERVISION (0,0,2,3); MAINTENANCE MANAGEMENT (0,0,2,3); RECORD KEEPING (0,0,0,1); REPORT WRITING (0,0,0,1)

 FT FIRE CONTROL TECHNICIAN E8-9
 SENIOR/MASTER CHIEF RESPONSIBLE FOR THE DUTIES PERFORMED BY:
 FTB FIRE CONTROL TECHNICIAN (BALLISTICS) E4-7
 FTG *FIRE CONTROL TECHNICIAL (GUNS) E4-7
 FTH FIRE CONTROL TECHNICIAL (MISSILES) E4-7

FTB FIRE CONTROL TECHNICIAN (BALLISTICS) E4-7
PERFORM ORGANIZATIONAL AND INTERMEDIATE LEVEL MAINTENANCE ON
BALLISTIC MISSILE FIRE CONTROL SYSTEMS, EQUIPMENT, AND ASSOCI-
ATED FIRE CONTROL SYSTEMS TEST EQUIPMENT; OPERATE BALLISTIC
MISSILE FIRE CONTROL SYSTEMS; TEST, ADJUST, AND REPAIR BALLISTIC
MISSILE GUIDANCE SUBSYSTEMS; AND OPERATE AND MAINTAIN ASSOCIATED
GUIDANCE SUBSYSTEMS TEST EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
BASIC ELECTRICITY/ELECTRONICS (3,6,6,6); APPLIED MATH (3,3,3,3),
BLUEPRINT READING (0,3,3,3); APPLIED PHYSICS (0,2,2,2); HUMAN
RELATIONS (0,0,3,3); PERSONNEL SUPERVISION (0,0,2,3); MAINTEN-
ANCE MANAGEMENT (0,0,2,3); RECORD KEEPING (0,0,0,1)

FTG * FIRE CONTROL TECHNICIAN G (GUN FIRE CONTROL) E4-7
PERFORM ORGANIZATIONAL AND INTERMEDIATE LEVEL MAINTENANCE ON
AND OPERATE, TEST, AND REPAIR GUN FIRE CONTROL SYSTEMS AND SUB-
MARINE WEAPON CONTROL SYSTEMS PLUS THEIR ASSOCIATED EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
BASIC ELECTRICITY/ELECTRONICS (3,6,6,6); APPLIED MATH (3,3,3,3),
BLUEPRINT READING (0,3,3,3); APPLIED PHYSICS (0,2,2,2); HUMAN
RELATIONS (0,0,3,3); PERSONNEL SUPERVISION (0,0,2,3); MAINTEN-
ANCE MANAGEMENT (0,0,2,3); RECORD KEEPING (0,0,0,1)

FTM FIRE CONTROL TECHNICIAN M (SURFACE MISSILES) E4-7
OPERATE, TEST, REPAIR, AND PERFORM ORGANIZATIONAL AND INTER-
MEDIATE LEVEL MAINTENANCE ON MISSILE FIRE CONTROL SYSTEMS
(INCLUDING WEAPONS DIRECTION SYSTEMS AND SEARCH RADARS),
MISSILES, TELEMETRY EQUIPMENT, AND ASSOCIATED SUPPORT EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
BASIC ELECTRICITY/ELECTRONICS (3,6,6,6); APPLIED MATH (3,3,3,3),
BLUEPRINT READING (0,3,3,3); APPLIED PHYSICS (0,2,2,2); HUMAN
RELATIONS (0,0,3,3); PERSONNEL SUPERVISION (0,0,2,3); MAINTEN-
ANCE MANAGEMENT (0,0,2,3); RECORD KEEPING (0,0,0,1)

GM GUNNER'S MATE E8-9
SENIOR/MASTER CHIEF RESPONSIBLE FOR THE DUTIES PERFORMED BY:
GMG GUNNER'S MATE (GUNS)
GMM GUNNER'S MATE (MISSILES)

GMG GUNNER'S MATE G (GUNS) E4-7
OPERATE, TEST, INSPECT, AND PERFORM ORGANIZATIONAL AND INTER-
MEDIATE MAINTENANCE ON GUNS, GUN MOUNTS, TURRETS, PROJECTORS,
HANDLING EQUIPMENT, AND SMALL ARMS; INSPECT, REPAIR AND MAKE
DETAILED CAUSALTY ANALYSES OF ELECTRIC, ELECTRONIC, HYDRAULIC,
AND MECHANICAL SERVOSYSTEMS IN SMALL ORDNANCE EQUIPMENT.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

GMM GUNNER'S MATE M (MISSILES) E4-7
OPERATE, TEST, INSPECT, AND PERFORM ORGANIZATIONAL AND INTER-
MEDIATE MAINTENANCE ON GUIDED-MISSILE LAUNCHING GROUPS, AND
HANDLING EQUIPMENT; INSPECT, REPAIR, AND MAKE DETAILED CASUALTY
ANALYSES OF ELECTRICAL, ELECTRONIC, HYDRAULIC, AND MECHANICAL
SYSTEMS AND SERVOSYSTEMS IN MISSILE EQUIPMENT.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

GMT GUNNER'S MATE T (TECHNICIAN) E4-9
PERFORM ORGANIZATIONAL, INTERMEDIATE, AND DEPOT MAINTENANCE;
STORE, INSPECT, TEST, ADJUST, REPAIR, AND PACKAGE NUCLEAR
WEAPON COMPONENTS AND ASSOCIATED EQUIPMENT; ASSEMBLE, DIS-
ASSEMBLE, AND CONVERT NUCLEAR WEAPONS, WARHEADS, AND/OR COM-
PONENTS; MAINTAIN MAGAZINES, ASSEMBLY AND STORAGE AREAS, AND
SPRINKLER AND ALARM SYSTEMS.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

GS GAS TURBINE SYSTEMS TECHNICIAN E4-9
OPERATE, REPAIR, AND PERFORM ORGANIZATIONAL AND INTERMEDIATE
MAINTENANCE ON GAS TURBINE ENGINES, MAIN PROPULSION MACHINERY,
ASSIGNED AUXILIARY EQUIPMENT, PROPULSION CONTROL SYSTEMS,
ELECTRICAL AND ELECTRONIC CIRCUITRY UP TO THE PRINTED CIRCUIT
MODULES, AND ALARM WARNING CIRCUITRY.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

HM HOSPITAL CORPSMAN E4-9
CONDUCT FIRST AID INSTRUCTION PROGRAMS, ADMINISTER MEDICINE,
SUPERVISE SHIPBOARD AND FIELD HYGIENE AND SANITATION, APPLY
FIRST AID, NURSE THE SICK AND INJURED, GIVE ARTIFICIAL RESPIR-
TION, ADMINISTER INOCULATIONS, TRANSPORT THE INJURED, FILL PRE-
SCRIPTIONS, PERFORM CLINICAL LABORATORY TESTS, EXAMINE PATIENTS,
ASSIST IN HOSPITAL FOOD SERVICE AND DIET PROGRAMS, PERFORM MED-
ICAL ADMINISTRATIVE WORK, INSTRUCT IN HOSPITAL CORPS SCHOOLS,
TAKE AND PROCESS X-RAYS, PERFORM MEDICAL DUTIES INDEPENDENT OF A
PHYSICIAN.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

HT * HULL MAINTENANCE TECHNICIAN E4-9
INSTALL, MAINTAIN, AND REPAIR VALVES, PIPING AND PLUMBING SYSTEM
FITTINGS AND FIXTURES; REPAIR DECKS, STRUCTURES, AND HULLS BY
WELDING, BRAZING, RIVETING, AND CAULKING; FABRICATE WITH LIGHT
AND HEAVY-GAUGE METAL; HEAT-TREATING, HOT AND COLD FORMING OF
METALS; PIPE-CUTTING, THREADING AND ASSEMBLY; MAINTAIN AND RE-
PAIR VENTILATION SYSTEMS; INSPECT AND REPAIR SURVIVAL EQUIPMENT,
HATCHES, VALVES, WATERTIGHT DOORS AND SCUTTLES; OPERATE AND
MAINTAIN FIREFIGHTING EQUIPMENT AND TRAIN OTHERS IN ITS USE.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
FIRE SCIENCE (4,6,6,6); BASIC PLUMBING (2,3,3,3); BRAZING AND
SOLDERING (2,3,3,3); ARC WELDING (2,3,3,3); OXYACETYLENE WEL-
DING (2,3,3,3); HUMAN RELATIONS (0,0,3,3); PERSONNEL SUPER-
VISION (0,0,2,3); MAINTENANCE MANAGEMENT (0,0,2,3)

IC INTERIOR COMMUNICATIONS ELECTRICIAN E4-8
 OPERATE AND PERFORM ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE
 ON INTERIOR COMMUNICATIONS SYSTEMS INCLUDING VOICE INTERIOR
 COMMUNICATIONS, ALARM, WARNING, SHIP'S CONTROL, ENTERTAINMENT,
 GYROCOMPASS, AND PLOTTING. RIG, TROUBLESHOOT, AND REPAIR
 VARIOUS COMMUNICATIONS EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 BASIC ELECTRICITY/ELECTRONICS (5,5,5,5); ELECTRICAL/ELECTRONIC
 CIRCUITS (5,6,6,6); ELECTRICAL/MECHANICAL SYSTEMS (4,4,4,4);
 TROUBLESHOOTING TECHNIQUES (4,6,8,8); APPLIED MATHEMATICS
 (2,2,2,2); ELECTRICAL/ELECTRONIC LAB (0,2,2,2); DIGITAL
 ELECTRONICS (0,1,2,2); BASIC ELECTRONICS (0,3,3,3); HUMAN
 RELATIONS (0,0,3,3); MAINTENANCE MGT (0,0,2,3); PERSONNEL
 SUPERVISION (0,0,2,3); RECORD KEEPING (0,0,0,1); REPORT
 WRITING (0,0,0,1)

IM * INSTRUMENTMAN E4-8
 PERFORM ORGANIZATIONAL/INTERMEDIATE MAINTENANCE ON MECHANICAL
 INSTRUMENTS SUCH AS PRESSURE/VACUUM MEASURING INSTRUMENTS,
 CENTRIFUGAL TACHOMETERS, BIMETALLIC THERMOMETERS, AND TORQUE
 MEASURING TOOLS; OFFICE MACHINES SUCH AS ADDRESSOGRAPHS, PAPER
 SHREDDERS/CUTTERS, MANUAL TYPEWRITERS, FLUID/STENCIL PROCESS
 DUPLICATORS; AND NAVY TIMEPIECES. IMPLEMENT NAVY OR MECHANICAL
 INSTRUMENT REPAIR AND CALIBRATION SHOP (MICRS) PROCEDURES.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 BASIC INSTRUMENTATION (6,6,6,6); BASIC MACHINE TOOL OPERA-
 TION (1,1,1,1); OFFICE MACHINE REPAIR (3,3,3,3); MECHANICAL
 BLUEPRINT READING (1,1,1,1); TECHNICAL MATHEMATICS (3,3,3,3);
 TEST AND MEASUREMENT STANDARDS (0,1,1,1); SHOP SUPERVISION
 (0,1,2,2); RECORDS ADMINISTRATION (0,0,1,2); PERSONNEL
 SUPERVISION (0,0,2,3)

IS INTELLIGENCE SPECIALIST E4-9
 ANALYZE INTELLIGENCE INFORMATION, PERFORM ADMINISTRATIVE DUTIES,
 IDENTIFY AND PRODUCE INTELLIGENCE FROM RAW INFORMATION, ASSEMBLE
 AND ANALYZE MULTI-SOURCE OPERATIONAL INTELLIGENCE, PREPARE AND
 PRESENT INTELLIGENCE BRIEFINGS, PREPARE MATERIALS FOR PHOTO-
 GRAPHIC RECONNAISSANCE MISSIONS, PREPARE GRAPHICS/OVERLAYS AND
 MOSAICS, PLOT IMAGERY USING MAPS AND CHARTS, PROVIDE INPUT TO
 AND RECEIVE DATA FROM COMPUTERIZED INTELLIGENCE SYSTEMS ASHORE
 AND AFLOAT, MAINTAIN INTELLIGENCE LIBRARIES AND FILES.

JO JOURNALIST E4-9
 GATHER FACTS AND WRITE ARTICLES FOR PUBLICATIONS AND BROADCASTS
 FOR CIVILIAN AND NAVY GROUPS, PREPARE STORIES FOR HOMETOWN NEWS
 OUTLETS, WRITE FEATURE ARTICLES ON NAVY PERSONNEL AND ACTIVI-
 TIES, WRITE SPEECHES, EDIT AND PROOFREAD NEWS TEXT, PREPARE LAY-
 OUTS FROM NEWS TEXT, MANAGE RADIO AND TELEVISION STATIONS, MAN-
 AGE SHIP OR STATION NEWSPAPERS, ARRANGE AND PRODUCE RADIO AND
 TELEVISION PROGRAMS, SET UP AND/OR CONDUCT TAPE-RECORDED INTER-
 VIEWS, WRITE SCRIPTS AND ANNOUNCEMENTS FOR RADIO AND TV, TAKE
 NEWS PHOTOGRAPHS, COORDINATE SPECIAL EVENTS, ADVISE AND TRAIN
 APPRENTICES IN THE RATING, PERFORM MANY OF THE FUNCTIONS OF A
 PUBLIC AFFAIRS OFFICER, MAINTAIN PUBLIC AFFAIRS FILES.

ENTER <JOED+ FOR DISPLAY OF EDUCATIONAL CORRESPONDANCE

JOED JOURNALIST - EDUCATIONAL CORRESPONDANCE E4-9
 EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 NEWS EDITING (3,3,3,3); NEWS REPORTING (3,3,3,3); WRITING FOR
 MASS MEDIA (3,3,3,3); AUDIO-VISUAL TECHNOLOGY (3,3,3,3);
 ANNOUNCING (3,3,3,3); STUDIO TECHNIQUES (3,3,3,3); PHOTOGRAPHY
 (3,6,6,6); LAYOUT (3,3,3,3); TECHNICAL WRITING (0,3,3,3);
 INTERVIEWING TECHNIQUES (0,3,3,3); FIELD EXPERIENCE PUBLIC
 BROADCAST JOURNALISM (0,0,0,3)

LI LITHOGRAPHER E4-9
MAKE LAYOUTS, SET UP TITLES AND HEADINGS, MARK COPY FOR COM-
POSITION, PROOFREAD, OPERATE COLD TYPE COMPOSITION MACHINES,
HAND-SET TYPE FOR PROOF PRESS AND LETTERPRESS, PULL REPRODUCTION
PROOFS FOR OFFSETTING, OPERATE PROCESS CAMERAS AND RELATED
EQUIPMENT, MAKE PLATES AND PREPARE THEM FOR PRESS, OPERATE
PRESSES, COLLEATE AND BIND.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
OFFSET PRESS OPERATION (3,4,4,4); PLATEMAKING (3,4,4,4);
INK (2,2,2,2); PROCESS CAMERA (3,4,4,4); LAYOUT (3,4,4,4);
COPY PREPARATION (3,4,4,4); FIELD EXPERIENCE GRAPHIC ARTS
(0,3,3,3); HUMAN RELATIONS (0,0,2,3); PRINT SHOP MANAGEMENT
(0,0,3,4); INDUSTRIAL ARTS EDUCATION (0,0,0,3)

LN LEGALMAN E5-9
PERFORM PARALEGAL DUTIES UNDER THE DIRECTION AND SUPERVISION
OF JUDGE ADVOCATES IN PROVIDING AND ADMINISTERING LEGAL SER-
VICES INCLUDING MATTERS CONCERNED WITH MILITARY JUSTICE, AD-
MINISTRATIVE DISCHARGES, CLAIMS, ADMIRALTY LAW, AND LEGAL
ASSISTANCE; RECORD AND TRANSCRIBE PROCEEDINGS; ADVISE AND
ASSIST PERSONNEL ON MATTERS OF LEGAL ADMINISTRATION.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E5, E6, E7):
OFFICE PROCEDURES (1,3,3); TYPING (2,3,3); MILITARY LEGAL
PRACTICES AND PROCEDURES (3,3,3); MACHINE SHORTHAND (6,6,6);
SOCIAL STUDIES (3,6,6); WRITTEN COMMUNICATION (0,2,2);
OFFICE MANAGEMENT (0,0,3); FIELD EXPERIENCE MANAGEMENT (0,0,1)

MA MASTER-AT-ARMS E6-9
PERFORM SECURITY DUTIES AFLOAT AND ASHORE INCLUDING INVESTI-
GATION, INTERROGATION, APPREHENSION, CORRECTIONS, AND REHABI-
LITATION; ENFORCE LAW AND ORDER TO MAINTAIN MILITARY DISCIPLINE,
VEHICULAR AND PERSONNEL TRAFFIC CONTROL.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E6, E7):
CRIMINAL INVESTIGATION (3,3); CRIMINAL LAW (3,3); CRIMINAL
PROCEDURE (3,3); CORRECTIONAL PROCEDURES (3,3); INTRODUCTION TO
PHYSICAL SECURITY/SAFETY (3,3); WEAPONS PROFICIENCY/SELF
DEFENCE (3,3); POLICE EQUIPMENT (3,3); INSTRUCTOR TECHNIQUES
(3,3); HUMAN RELATIONS/APPLIED PSYCHOLOGY (3,3); REPORT
WRITING (0,0,3,3)

ML MOLDER E4-9
OPERATE FOUNDRIES, INDUCTION FURNACES, BAKING OVENS FOR CORES;
MAKE MOLDS, POUR CASTINGS OF FERROUS/NONFERROUS AND ALLOY ME-
TALS, IDENTIFY METALS, MAINTAIN OPERATING EFFICIENCY OF FOUN-
DRIES, ESTIMATE TIME/MATERIAL AND COST REQUIRED IN CASTINGS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
FOUNDRY/METAL CASTING (4,6,8,8); MANUFACTURING PROCESSES
(1,2,2,2); MATERIALS SCIENCE (0,0,1,1); SHOP SUPERVISION
(0,0,1,2); PERSONNEL SUPERVISION (0,0,0,1); RECORD KEEPING
(0,0,0,1); SAFETY MANAGEMENT (0,0,0,1)

MM * MACHINIST'S MATE E4-9
OPERATE AND PERFORM ORGANIZATIONAL AND INTERMEDIATE LEVEL MAIN-
TENANCE ON, AND REPAIR SHIP PROPULSION AND AUXILIARY MACHINERY
SUCH AS STEERING ENGINE, WINDLASSES AND HOISTING MACHINERY, EL-
EVATORS, AND FOOD PREPARATION, LAUNDRY, REGRIGERATION, AND AIR-
CONDITIONING EQUIPMENT; TRANSFER AND INVENTORY LUBRICATING OILS,
MAINTAIN RECORDS AND REPORTS, AND AID IN GENERATION AND STOWAGE
OF INDUSTRIAL GASSES.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
MACHINERY MAINTENANCE AND REPAIR (10,10,12,12); MAINTENANCE
TECHNOLOGY (3,3,3,3); AIR CONDITIONING/REFRIGERATION (1,3,3,3);
BLUEPRINT READING (1,1,1,1); RECORD KEEPING (0,1,1,1); HUMAN
RELATIONS (0,0,3,3); PERSONNEL SUPERVISION (0,0,2,3); MAINTEN-
ANCE MANAGEMENT (0,0,2,3)

MN MINEMAN

SCHEDULE INTERMEDIATE LEVEL MAINTENANCE AND TEST, REPAIR, AND OVERHAUL MINES AND THEIR COMPONENTS; ASSEMBLE, DISASSEMBLE, TEST, UPGRADE, HANDLE, ISSUE, AND DELIVER MINES TO PLANTING AGENT; RECEIVE MINES FROM AFLOAT PLATFORMS.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

MR * MACHINERY REPAIRMAN

E4-9

PERFORM ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE ON AUXILIARY EQUIPMENT; OPERATE MACHINE SHOP EQUIPMENT SUCH AS LATHES, DRILL PRESSES, SHAPERS, BENCH GRINDERS, MILLING MACHINES, BORING MILLS AND POWER HACKSAWS; USE PRECISION TOOLS SUCH AS MICROMETERS, DEPTH GAUGES, VERNIERS, CALIPERS, GAUGE BLOCKS, PROTRACTORS, AND DIAL INDICATORS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7): MACHINE TECHNOLOGY (3,6,6,6); PRINCIPLES AND OPERATION OF MACHINE TOOLS (3,4,6,6); MACHINE SHOP MATHEMATICS (2,2,3,3); BLUEPRINT READING (1,3,3,3); INTRODUCTION TO THE METRIC SYSTEM OF MEASUREMENT (1,1,1,1); RECORD KEEPING (0,1,1,1); HUMAN RELATIONS (0,0,3,3); PERSONNEL SUPERVISION (0,0,2,3); MAINTENANCE MANAGEMENT (0,0,2,3)

MS * MESS MANAGEMENT SPECIALIST

E4-9

OPERATE AND MANAGE KITCHEN AND DINING FACILITIES AND BACHELOR QUARTERS; ASSIST IN ORDERING AND STOWAGE OF FOODSTUFFS AND PROCUREMENT OF EQUIPMENT INCLUDING COOKING AND EATING UTENSILS; PREPARE MENUS; PLAN, PREPARE, AND SERVE MEALS; MAINTAIN FOOD SERVICE SPACES IN A CLEAN AND SANITARY CONDITION; MAINTAIN FINANCIAL RECORDS AND REQUIRED REPORTS; SUPERVISE ASSIGNED PERSONNEL.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7): QUANTITY FOOD PREPARATION (6,9,9,9); SANITATION (3,3,3,3); KITCHEN OPERATIONS (2,3,3,3); FOOD SERVICE INTERNSHIP (1,2,2,2); FOOD SERVICE ADMINISTRATION (0,2,2,2); RECORD KEEPING (0,0,1,2); PERSONNEL MANAGEMENT (0,0,2,3); OFFICE MANAGEMENT (0,0,0,1); PERSONNEL SUPERVISION (0,0,0,3); FOOD COST CONTROL (0,0,0,3)

MT MISSILE TECHNICIAN

E4-7

OPERATE, TEST, AND PERFORM ORGANIZATIONAL AND INTERMEDIATE LEVEL MAINTENANCE ON FLEET BALLISTIC AND LAUNCHER MISSILE SUBSYSTEM EQUIPMENT; PARTICIPATE IN MISSILE HANDLING FUNCTIONS; ADJUST ALIGN, AND CALIBRATE BASIC ELECTRONIC CIRCUITS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7): BASIC ELECTRICITY/ELECTRONICS (3,6,6,6); APPLIED MATH (3,3,3,3); BLUEPRINT READING (0,3,3,3); APPLIED PHYSICS (0,2,2,2); HUMAN RELATIONS (0,0,3,3); PERSONNEL SUPERVISION (0,0,2,3); MAINTENANCE MANAGEMENT (0,0,2,3); RECORD KEEPING (0,0,0,1)

MU MUSICIAN

E4-9

PERFORM AS MEMBERS OF MARCHING, CONCERT, STAGE, OR DANCE BANDS + COMBOS INCLUDING JAZZ, ROCK, SOUL, POP, COUNTRY AND BLUEGRASS STYLES OF MUSIC; CONDUCT, REHEARSE, AND PERFORM IN THESE GROUPS FOR RADIO, TV AND STAGE; TRANSCRIBE/ARRANGE MUSIC FOR ALL TYPES OF ENSEMBLES, GIVE CONCERTS AND PROVIDE MUSIC FOR MILITARY CEREMONIES, RELIGIOUS SERVICES, PARADES AND SOCIAL OCCASIONS; PERFORM FOR NAVY PERSONNEL AND THEIR FAMILIES, AND FOR THE GENERAL PUBLIC AT DIPLOMATIC FUNCTIONS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7): MUSIC THEORY (4,4,8,12); JAZZ THEORY, IMPROVISATION (2,2,2,2); APPLIED PERFORMANCE (4,6,6,6); PERFORMING ENSEMBLES (2,2,4,4); ELEMENTARY CONDUCTING (0,1,1,1); MARCHING BAND (0,1,2,3); CONCERT BAND (0,1,1,1); APPLIED PERFORMANCE-SECONDARY INSTRUMENT (0,0,0,1)

NC NAVY COUNSELOR E6-9
ASSIST COMMANDS IN ORGANIZING AND IMPLEMENTING AN AGGRESSIVE
ENLISTED RECRUITING AND RETENTION PROGRAM; SUPERVISE AND
COORDINATE INTERVIEWING AND COUNSELING EFFORTS; COUNSEL PERSON-
NEL AND GIVE PRESENTATIONS TO VARIOUS GROUPS ABOUT NAVY CAREERS;
ESTABLISH AND MAINTAIN LIAISON WITH LOCAL MEDIA.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E6, E7):
APPLIED PSYCHOLOGY (1,1); SPEECH COMMUNICATION (3,3); WRITTEN
COMMUNICATION (3,3); HUMAN RELATIONS (3,3); COMMUNITY RELATIONS
(1,1); INTRODUCTION TO MASS MEDIA (1,3); INTERVIEWING
TECHNIQUES (2,2); CAREER INFORMATION AND COUNSELING (3,3);
PSYCHOLOGY COUNSELING THEORY AND TECHNIQUES (0,1); BEHAVIOR
CRISIS INTERVENTION (0,1); DRUGS AND ALCOHOL ABUSE (0,1)

OM OPTICALMAN E4-8
PERFORM ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE ON SMALL
NAVIGATIONAL INSTRUMENTS, BINOCULARS, GUNSIGHTS, RANGE FINDERS,
SUBMARINE AND TURRET PERISCOPES, NIGHT VISION SIGHTS, AND OTHER
OPTICAL INSTRUMENTS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
MACHINE TOOL OPERATION (1,3,3,3); FABRICATION TECHNIQUES
(2,3,3,3); OPTICAL PHYSICS (3,5,5,5); OPTICAL LAB (3,5,6,6);
BLUEPRINT READING (0,1,1,1); OPTICAL MEASUREMENT (0,2,2,2);
TECHNICAL MATHEMATICS (0,3,3,3); RECORD KEEPING (0,0,3,3);
PERSONNEL SUPERVISION (0,0,2,3); SHOP SUPERVISION (0,0,1,1);
HUMAN RELATIONS (0,0,0,2)

OS OPERATIONS SPECIALIST E4-9
SERVE AS PLOTTERS, STATUS BOARD KEEPERS, RADIO AND SOUND POWERED
TELEPHONE TALKERS, AND MAINTAIN COMBAT INFORMATION CENTER (CIC)
DISPLAYS; OPERATE SURVEILLANCE AND ALTITUDE RADAR, IDENTIFICA-
TION FRIEND OR FOE (IFF), AND ASSOCIATED EQUIPMENT; INTERPRET
AND EVALUATE PRESENTATIONS AND TACTICAL SITUATIONS, AND MAKE
RECOMMENDATIONS TO SUPERIORS DURING WATCH CONDITIONS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
RADAR OPERATIONS (6,6,6,6); APPLIED MATHEMATICS (3,3,3,3);
SEAMANSHIP (3,3,3,3); BASIC ELECTRONICS (2,3,3,3); COASTWISE
NAVIGATION AND PILOTING (0,3,3,3); RECORD KEEPING (0,1,2,2);
PERSONNEL SUPERVISION (0,1,2,3); AIR TRAFFIC CONTROL (0,0,1,1);
FIELD EXPERIENCE MANAGEMENT (0,0,0,3)

OT OCEAN SYSTEMS TECHNICIAN E4-9
OPERATE LOW FREQUENCY ANALYZING AND RECORDING (LOFAR) AND
ASSOCIATED EQUIPMENT FOR ANALYSIS, EVALUATION, AND INTERPRETA-
TION OF ACOUSTIC DATA FOR OPERATIONAL USE; EVALUATE EQUIPMENT
OPERATION; LOCATE AND ANALYZE EQUIPMENT CAUSALITIES AND MAKE
MINOR REPAIRS AND ADJUSTMENTS.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

PC POSTAL CLERK E4-9
OPERATE, SUPERVISE, ORGANIZE, AND ESTABLISH OR DISESTABLISH A
NAVY POST OFFICE; PERFORM POSTAL COUNTERWORK SUCH AS SELLING
STAMPS AND MONEY ORDERS; PROCESS AND ROUTE INCOMING AND OUT-
GOING MAIL; MAINTAIN A MAIL DIRECTORY; MAINTAIN SECURITY OF
POSTAL EFFECTS; PROCESS CLAIMS AND INQUIRIES.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
MAIL PROCESSING (3,4,6,6); POSTAL CUSTOMER SERVICES (2,2,2,2);
POSTAL DELIVERY/COLLECTION (0,3,3,3); RECORD KEEPING (0,2,2,2);
GENERAL CLERICAL PROCEDURES (0,0,3,3); POSTAL PROBLEMS ANALYSIS
(0,0,0,2); PERSONNEL SUPERVISION (0,0,0,3); FIELD EXPERIENCE
MANAGEMENT (0,0,0,1)

PH PHOTOGRAPHER'S MATE E4-9
OPERATE, MAINTAIN, + REPAIR VARIOUS TYPES OF CAMERAS FOR A VARIETY OF USES, PERFORM DUTIES AS MEMBERS OF FLIGHT CREWS, DEVELOP MOTION PICTURE FILM AND MICROFILM PRINTS, TAKE NEWS PHOTOGRAPHS, OPERATE LABORATORY AND DARKROOM EQUIPMENT FOR FILM PROCESSING, MIX PHOTOGRAPHIC CHEMICALS AND SOLUTIONS, PREPARE AUDIO-VISUAL PRESENTATIONS, OPERATE TV CAMERAS AND PRODUCE TV PRODUCTIONS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
CAMERA/ACCESSORIES OPERATION (6,6,6,6); PHOTO TECHNIQUES (6,6,6,6); PHOTO PROCESSING (6,6,6,6); BASIC PHOTOGRAPHY (3,3,3,3); CAMERA TECHNIQUES (2,3,3,3); DARKROOM TECHNIQUES (2,3,3,3); COLOR PHOTOGRAPHY (1,1,1,1); INTERNSHIP PHOTOGRAPHY/CINEMA (2,2,3,3); FILM PRODUCTION (0,2,3,3); PORTRAITURE (0,1,1,1); TECH PHOTOGRAPHY (0,0,1,2); PERSONNEL SUPERVISION (0,0,1,3); MAINTENANCE MANAGEMENT (0,0,0,2)

PI PRECISION INSTRUMENTMAN E9
MASTER CHIEF RESPONSIBLE FOR DUTIES PERFORMED BY THE FOLLOWING:
IM *INSTRUMENTMAN
OM OPTICMAN

PM PATTERNAKER E4-7
MAKE ALL TYPES OF WOOD, METAL, PLASTER OF PARIS PATTERNS AND TEMPLATES/JIGS FOR USE IN PATTERN SHOPS, SKETCH AND DESIGN PATTERNS, USE HAND AND POWER-DRIVEN TOOLS AND INSTRUMENTS TO CONSTRUCT PATTERNS, ESTIMATE TIME/MATERIAL AND COSTS FOR PATTERN-MAKING AND CASTING JOBS, MAINTAIN AND REPAIR PATTERMAKERS' TOOLS AND EQUIPMENT.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
BLUEPRINT READING/SKETCHING (3,3,3,3); INTRODUCTION TO CONSTRUCTION (3,3,3,3); MACHINE SHOP (1,1,2,2); USE AND CARE OF TOOLS (1,1,2,2); SHOP SUPERVISION (0,0,1,2); RECORD KEEPING (0,0,0,1); SAFETY (0,0,0,1)

PN PERSONNELMAN E4-9
INTERVIEW PERSONNEL, ADMINISTER TESTS, MAKE RECOMMENDATIONS FOR ASSIGNMENTS, CAREER COUNSELING, OPERATE VISUAL AIDS SUCH AS SOUND MOVIE PROJECTORS FOR INSTRUCTION AND TRAINING, ANALYZE NAVY JOBS AND QUALIFICATIONS REQUIRED, PREPARE ORGANIZATIONAL CHARTS, WRITE OFFICIAL LETTERS AND REPORTS, MAINTAIN ENLISTED SERVICE RECORDS, NAVY DIRECTIVE SYSTEM, NAVY FILING SYSTEM.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
TYPING (1,1,2,2); OFFICE PROCEDURES (1,3,3,3); FILING/RECORDS MANAGEMENT (0,1,1,1); WRITTEN COMMUNICATION (0,0,3,3); HUMAN RELATIONS (0,0,0,2); FIELD EXPERIENCE MANAGEMENT (0,0,0,1)

PR AIRCREW SURVIVAL EQUIPMENTMAN E4-9
INSPECT, MAINTAIN, AND REPAIR PARACHUTES, SURVIVAL EQUIPMENT, AND FLIGHT AND PROTECTIVE CLOTHING AND EQUIPMENT; PACK AND RIG PARACHUTES AND LIFERAFTS; REPAIR AND TEST OXYGEN REGULATORS, AND LIQUID OXYGEN CONVERTERS; FIT AND MAINTAIN OXYGEN MASKS, FLIGHT CLOTHING, ANTI-EXPOSURE SUITS, AND ANTI-G SUITS; OPERATE AND REPAIR CARBON DIOXIDE TRANSFER AND RECHARGE EQUIPMENT; OPERATE AND REPAIR SEWING MACHINES.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
AVIATION SAFETY EQUIP MAINTENANCE AND REPAIR (9,12,15,15); AVIATION MAINTENANCE TECHNOLOGY (3,6,6,6); PERSONNEL SUPERVISION (0,2,3,3); SHOP MANAGEMENT (0,0,0,3)

QM QUARTERMASTER

E4-9

STAND WATCH AS ASSISTANTS TO OFFICERS OF THE DECK AND TO THE NAVIGATOR; SERVE AS STERRSMEN AND PERFORM SHIP CONTROL, NAIVGATION, AND BRIDGE WATCH DUTIES; PROCURE, CORRECT, USE AND STOW NAVIGATIONAL AND OCEANOGRAPHIC PUBLICATIONS AND OCEANOGRAPHIC CHARTS; MAINTAIN NAVIGATIONAL INSTRUMENTS AND KEEP CORRECT NAVIGATIONAL TIME.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
SEAMANSHIP (3,3,3,3); COASTWISE NAVIGATION/PILOTING (0,3,3,3);
PRACTICAL MATHEMATICS (0,3,3,3); APPLIED METEORYOLOGY (0,1,1,1);
PRACTICAL MARINE INSTRUMENTATION (0,1,1,1); CELESTIAL NAVIGATION (0,1,3,3); RECORD KEEPING (0,3,3,3); PERSONNEL SUPERVISION (0,2,3,3); ADVANCED NAVIGATION (0,0,3,3)

RM RADIOMAN

E4-9

TRANSMIT/RECEIVE/ROUTE AND LOG RADIO MESSAGES, MAKE SURE APPLICABLE SECURITY MEASURES ARE OBSERVED, ADVISE ON CAPABILITIES/LIMITATIONS AND CONDITION OF RADIO EQUIPMENT, OPERATE AND MAINTAIN TELETYPEWRITER EQUIPMENT, OPERATE RADIO TRANSMITTERS AND RECEIVERS, MAINTAIN MESSAGE CENTER FILES/OPERATING LOGS AND UPDATE COMMUNICATIONS PUBLICATIONS, OPERATE AND COORDINATE COMMUNICATIONS SYSTEMS INCLUDING AUTOMATED NETWORKS/SATELLITE DATA LINKS AND THE FULL SPECTRUM OF VOICE AND TELETYPE CIRCUITS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
ELECTRONIC COMMUNICATIONS SYSTEMS (2,3,4,4); BASIC ELECTRONICS (3,3,3,3); OPERATION OF COMMUNICATIONS SYSTEMS (6,8,10,10);
RECORD KEEPING (0,0,1,1); HUMAN RELATIONS (0,0,3,3);
MAINTENANCE MANAGEMENT (0,0,2,3); PERSONNEL SUPERVISION (0,0,2,3); REPORT WRITING (0,0,0,1)

RP RELIGIOUS PROGRAM SPECIALIST

E4-9

SUPPORT CHAPLAINS AND RELIGIOUS ACTIVITIES FOR ALL FAITHS, ASSIST IN MANAGEMENT AND DEVELOPMENT OF RELIGIOUS PROGRAMS AND DETERMINATION OF RESOURCES, MAINTAIN RECORDS OF VARIOUS FUNDS, ECCLESIASTICAL DOCUMENTS AND REFERENCES, TRAIN PERSONNEL IN SUPPORT OF RELIGIOUS PROGRAMS, MAINTAIN SHIPBOARD LIBRARIES, INSTRUCT IN METHODS OF RELIGIOUS EDUCATION, MAINTAIN LIAISON WITH RELIGIOUS AND COMMUNITY AGENCIES, ASSIST IN PREPARATION OF DEVOTIONAL AND RELIGIOUS EDUCATIONAL MATERIALS AND AUDIO-VISUAL DISPLAYS, PUBLICIZE RELIGIOUS ACTI000001, COORDINATE VOLUNTEER RELIGIOUS PROGRAMS, REQUISITION, MAINTAIN AND SAFEGUARD ECCLESIASTICAL EQUIPMENT AND SUPPLIES, SUPERVISE THE CHAPLAIN'S OFFICES, PERFORM ADMINISTRATIVE, CLERICAL AND SECRETARIAL DUTIES.

SH SHIP'S SERVICEMAN

E4-9

PROVIDE DIRECT PERSONAL SERVICES BY OPERATING AND MANAGING RESALE ACTIVITIES, SUCH AS SHIP'S STORES, COMMISSARY STORES, AND NAVY EXCHANGES; SERVICE LAUNDRY AND DRYCLEANING FACILITIES, VENDING MACHINES, FOUNTAINS, SNACKBARS, BARBER AND TAILOR SHOPS; AND PERFORM CLERICAL AND STOCK CONTROL FUNCTIONS FOR ALL ACTIVITIES OPERATED.

ENTER <SHED> FOR DISPLAY OF EDUCATIONAL CORRESPONDANCE

SHED SHIP'S SERVICEMAN - EDUCATIONAL CORRESPONDANCE

E4-9

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
NOTE: SINGLE NUMBERS IN PARENTHESES APPLY TO E4-7

ALL - RECORD KEEPING (2,2,3,3); SMALL BUSINESS MGT (3,3,3,3);
PERSONNEL SUPERVISION (0,2,3,3); RETAILS SALES MANAGEMENT (0,0,0,3); FIELD EXPERIENCE MANAGEMENT (0,0,0,3)
TAILOR - BEGINNING TAILORING (3); APPLIED TAILORING TECHNIQUES (3); HOME ECONOMICS IN TAILORING TECHNIQUES (3)
BARBER - BARBER SCIENCE (3); BARBER SCIENCE (3); APPLIED BARBER SHOP TECHNIQUES (7)
LAUNDRY- TREATING OF FABRICS (2); LAUNDRY EQUIPMENT OPERATION TECHNIQUES (3); LAUNDRY MANAGEMENT (3); DRY CLEANING AND PRESSING (3)
CLERK - ENVIRONMENT CONTROL (1); INVENTORY CONTROL (3)

 SK * STOREKEEPER E4-9
 TAKE CHARGE OF STOREROOMS, ISSUE REPAIR PARTS, CLOTHING, + OTHER
 ITEMS, MAKE REQUISITIONS AND ORDERS TO MAINTAIN SUPPLIES AT THE
 PRESCRIBED SUPPORT LEVEL AND TO SATISFY NONSTOCKED DEPARTMENTAL
 REQUIREMENTS, TAKE INVENTORIES, ORGANIZE WAREHOUSING, PREPARE
 ITEMS FOR SHIPMENT INCLUDING INVOICES AND SHIPPING DOCUMENTS,
 UPDATE AND MAINTAIN SUPPLY MANUALS, MAINTAIN FINANCIAL RECORDS,
 ENSURE TIMELY RECEIPT OF STOCKS, UTILIZE COMPUTERS AS AVAILABLE
 FOR THE ABOVE, TYPE SUPPLY-RELATED DOCUMENTS, OPERATE AIR TER-
 MINALS OVERSEAS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 GENERAL CLERICAL (1,1,1,1); OFFICE MACHINES (2,2,2,2); INVENTORY
 CONTROL (0,3,3,3); RECORD KEEPING (0,2,2,2); AUTOMATED RECORD
 KEEPING (0,0,1,1); PERSONNEL SUPERVISION (0,1,1,2); WRITTEN
 COMMUNICATION SKILLS (0,0,0,3)

 SM SIGNALMAN E4-9
 SEND AND RECEIVE MESSAGES BY FLASHING LIGHT/SEMAPHORE AND SIG-
 NAL FLAGS, STAND WATCH ON THE SIGNAL BRIDGE, ENCODE AND DECODE
 MESSAGES, MAINTAIN SIGNAL EQUIPMENT, HONOR PASSING NAVAL
 VESSELS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 SEAMANSHIP (3,3,3,3); RECORD KEEPING (0,2,2,2); LAW ENFORCE-
 MENT/POLICE SCIENCE (0,1,1,1); PERSONNEL SUPERVISION (0,2,2,2);
 FIELD EXPERINECE MANAGEMENT (0,0,0,3)

 ST SONAR TECHNICIAN E9
 MASTER CHIEF RESPONSIBLE FOR THE DUTIES OF THE FOLLOWING:
 STG SONAR TECHNICIAN G (SURFACE) E4-8
 STS SONAR TECHNICIAN S (SUBMARINE) E4-8

 STG SONAR TECHNICIAN G (SURFACE) E4-8
 PERFORM ORGANIZATIONAL AND INTERMEDIATE LEVEL MAINTENANCE ON
 SURFACE SONAR AND ALLIED EQUIPMENT; OPERATE, EVALUATE, AND
 INTERPRET DATA FROM SURFACE SONAR AND OCEANOGRAPHIC EQUIP-
 MENT, SURFACE SHIP UNDERWATER FIRE CONTROL EQUIPMENT, AND
 ASSOCIATED EQUIPMENT FOR THE SOLUTION OF ANTISUBMARINE
 WARFARE PROBLEMS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 BASIC ELECTRICITY/ELECTRONICS (3,6,6,6); APPLIED MATHEMATICS
 (3,3,3,3); BASIC BLUEPRINT READING (2,3,3,3); APPLIED
 PHYSICS (0,2,2,2); MAINTENANCE MANAGEMENT (0,0,2,3);
 PERSONNEL SUPERVISION (0,0,2,3); HUMAN RELATIONS (0,0,3,3);
 RECORD KEEPING (0,0,0,1)

 STS SONAR TECHNICIAN S (SUBMARINE) E4-8
 PERFORM ORGANIZATIONAL AND INTERMEDIATE LEVEL MAINTENANCE ON
 SUBMARINE SONAR AND ALLIED EQUIPMENT; OPERATE, EVALUATE, AND
 INTERPRET DATA FROM SUBMARINE SONAR AND OCEANOGRAPHIC EQUIP-
 MENT, AND SUBMARINE AUXILIARY SONAR; COORDINATE SUBMARINE
 SONAR AND UNDERWATER FIRE CONTROL INTERFACE.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
 BASIC ELECTRICITY/ELECTRONICS (3,6,6,6); APPLIED MATHEMATICS
 (3,3,3,3); BASIC BLUEPRINT READING (2,3,3,3); APPLIED
 PHYSICS (0,2,2,2); MAINTENANCE MANAGEMENT (0,0,2,3); PERSONNEL
 SUPERVISION (0,0,2,3); HUMAN RELATIONS (0,0,3,3); RECORD
 KEEPING (0,0,0,1)

SW STEELWORKER E4-8
ERECT OR DISMANTLE STEEL BRIDGES, PIERS, BUILDINGS, TOWERS, AND
PRE-ENGINEERED STRUCTURES; FABRICATE, ERECT, INSTALL, FIT,
WELD, AND BOLT STRUCTURAL STEEL SHAPES, PLATES, AND THE BUILT-
UP SECTIONS USED ON HEAVY CONSTRUCTION; LAY OUT, FABRICATE,
AND INSTALL SHEET METAL ASSEMBLIES; PERFORM OXY-GAS WELDING
AND CUTTING, SHIELDED ARC WELDING, HARD FACING OF HEAVY
EQUIPMENT, AND GMA/GMT WELDING.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
WELDING (9,15,15,15); STEEL LAYOUT/FABRICATION (1,2,3,3);
ADVANCED WELDING (0,0,6,6); TECHNICAL MATHEMATICS (0,0,3,3);
PERSONNEL SUPERVISION (0,0,2,3); INDUSTRIAL TECHNOLOGY
(0,0,0,3); TECHNICAL WRITING (0,0,0,1)

TD TRADESMAN E4-9
OPERATE AND PERFORM ORGANIZATIONAL AND INTERMEDIATE LEVEL
MAINTENANCE ON TRAINING DEVICES; ASSIST IN THE DEVELOPMENT,
OPERATION, AND/OR IMPROVEMENT OF TRAINING PROGRAMS OF SUP-
PORTED ACTIVITIES; AND CONSTRUCT, DEVISE, OR OBTAIN TRAIN-
ING AIDS.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
BASIC ELECTRICITY/ELECTRONICS (3,3,3,3); TECHNICAL MATHEMATICS
(3,3,3,3); BLUEPRINT READING/SCHEMATICS (2,2,2,2); APPLIED
PHYSICS (6,6,6,6); RECORD KEEPING (0,0,2,2); PERSONNEL
SUPERVISION (0,0,2,3); AUDIO-VISUAL EDUCATION (0,0,0,3);
INSTRUCTIONAL TECHNIQUES/MATERIALS (0,0,0,3)

TM TORPEDOMAN'S MATE E4-9
PERFORM ORGANIZATIONAL AND INTERMEDIATE LEVEL MAINTENANCE ON
UNDERWATER ORDNANCE SUCH AS TORPEDOES AND ANTISUBMARINE ROCKETS
(SUBROC/ASROC), LAUNCHED FROM SURFACE SHIPS, SUBMARINES, AND
AIRCRAFT; OPERATE AND MAINTAIN LAUNCHING/FIRING SYSTEMS AND
STOWAGE FACILITIES; PREPARE UNDERWATER ORDNANCE FOR LAUNCHING;
AND CONDUCT POSTFIRING ROUTINES, SECURING, AND EVALUATION
PROCEDURES.

EDUCATIONAL CORRESPONDANCE NOT AVAILABLE

UT UTILITIESMAN E4-9
INSTALL AND MAINTAIN SYSTEMS REQUIRING PLUMBING AND PIPE-FITTING
SKILLS, INSTALL/OPERATE AND REPAIR HEATING/PIPING/VENTILATION
AND AIR CONDITIONING SYSTEMS, OPERATE AND MAINTAIN WATER AND
WASTE-WATER SYSTEMS AND TREATMENT PLANTS, IDENTIFY AND CARRY OUT
PROCEDURES TO LIMIT OR MINIMIZE THE ADVERSE EFFECTS OF ENVIRON-
MENTAL POLLUTION, READ BLUEPRINTS AND ESTIMATE MATERIALS/COST.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
INTRO TO CONST (3,3,3,3); UTILITIES MAINTENANCE (3,3,3,3);
PLUMBING (3,3,3,3); UTILITIES CONST/MAINT (3,3,4,4); UTILITIES
INSTALLATION (0,3,6,6); BLUEPRINT READING/SKETCHING (0,2,2,2);
APPLIED SCIENCE (0,3,3,3); GENERAL PLANS/SPECS (0,2,2,2);
UTILITIES CONST ESTIMATING (0,0,3,3); WATER/SEWAGE TREATMENT
SYSTEMS (0,0,3,3); PERSONNEL SUPERVISION (0,0,2,3); SHOP
MANAGEMENT (0,0,0,2); SAFETY MANAGEMENT (0,0,0,1)

YN * YEOMAN E4-9
PREPARE AND TYPE CORRESPONDENCE AND REPORTS, ORGANIZE AND MAIN-
TAIN FILES, RECEIVE OFFICE VISITORS AND HANDLE TELEPHONE COM-
MUNICATIONS, PERFORM OFFICE DUTIES, PERFORM ADMINISTRATIVE
DUTIES IN CONNECTION WITH INVESTIGATIONS AND TRIALS, MAINTAIN
RECORDS AND OFFICIAL PUBLICATIONS, UTILIZE DUPLICATING AND
AUDIO-RECORDING EQUIPMENT TO ACCOMPLISH THE ABOVE, REQUISITION
OFFICE SUPPLIES.

EDUCATIONAL CORRESPONDANCE (SEMESTER HOURS FOR E4, E5, E6, E7):
TYPING (2,3,3,3)

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